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ILLINOIS INSTITUTE OF TECHNOLOGY

35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

FOR RELEASE: Immediate

Public Relations
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

News Supervisor: Jack A. Miller
Office: CAlumet 5-9600, Extension 2384
Home: MOhawk 4-7643
For further information on this release, contact:

Jack A. Miller, Ext. 744

Date Mailed: 1/3/61

Frederick C. Holtz and Dr. Niranjan M. Parikh have been named senior metallurgists in the metals research division at Armour Research Foundation.

Holtz (1028 Ridge ct., Evanston, Ill.) became associated with the Foundation in 1956, and has worked on research programs dealing with uranium, tungsten, and molybdenum. Previously he held the position of chief metallurgist at Vascoloy-Ramet Corp. He received his B.S. degree in metallurgy at Stanford University.

Parikh (3100 S. Michigan av.) came to ARF in June 1959, and has been associated with research in fiber-metal reinforcement, zone refining of tungsten alloys, high strength powder metal parts, and dispersion hardened aluminum alloys. He received his B.S. and M.S. degrees at Alfred University in glass technology and holds a doctorate in ceramics from Massachusetts Institute of Technology. Previously he worked at the scientific laboratory of the Ford Motor Co., Dearborn, Mich.

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Date Mailed: 1/5/61

CHICAGO -- Speaking of science, that is precisely what a group of physicists at Armour Research Foundation are prepared to do.

They have formed what might be called a scientific speaker's bureau for the purpose of presenting current research information to scientific staffs in industry and at industrial laboratories.

Eighteen physicists, who are senior staff members in physics research at ARF, will be available for scientific talks. Technical topics will cover such fields as radiation chemistry, fiber optics, organic semiconductors, acoustics, industrial use of reactors, and others.

The program was organized under the direction of Dr. James J. Brophy, ARF assistant director of physics research, to make research news more readily available, and also to translate scientific developments into practical use.

- See List Attached -

1. Lattice Defects in Nearly Perfect Crystals
   Dr. Robert H. Bragg

2. Electrical Fluctuations in Semiconductors
   Dr. James J. Brophy

3. Conductivity in Amorphous Semiconductors
   Dr. John W. Buttrey

4. Fundamental and Applied Aspects of Radiation Chemistry
   Dr. Paul Y. Feng

5. An Experiment to Measure the Dissociative Recombination Coefficient of O_2^+ With Electrons
   Carsten M. Haaland

6. Measurement and Tests at Riverbank Acoustical Laboratories
   Ralph Huntley

7. Cold Neutron Physics
   William E. Loewe

8. Industrial Applications of Magnetic Resonance
   Dr. Samson A. Marshall

9. Industrial Use of Research Reactors
   William N. McElroy

10. The Interaction Between an Electron Beam and a Plasma
    Lawrence C. Scholz

11. Selected Topics in Nuclear Chemistry
    Keith E. Schmude

12. Diffusion and Carrier Recombination in Semiconductors: Their Effects on Mechanical Damping
    Dr. P. David Southgate

13. Impedance Concepts in Acoustics
    William C. Sperry

14. High Temperature Physics and Chemistry with Shock Tubes
    Dr. Martin Steinberg

15. Practical Sources of X-Rays Using Radioisotopes
    Clinton A. Stone

16. The Dust Fueled Breeder Reactor
    Charles W. Terrell

17. Luminescence of Solids
    Harold V. Watts

18. Frontiers of Acoustics
    Roy R. Whymark

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James Stathas, Ext. 746

Date Mailed: 1/10/61

Illinois Institute of Technology's chemistry department was recently awarded two National Science Foundation grants totaling $27,378. The funds will be used to conduct a Research Participation program this summer for high school and college chemistry teachers.

Teachers who take part in the program, being held at IIT for the third consecutive year, are those with bachelor degrees in chemistry and who are interested in research in the field of physical-organic chemistry.

According to Dr. Sidney Miller, director of the program and associate professor of chemistry at Illinois Tech, the basic aim of the research program is to strengthen chemistry teachers' backgrounds, so that they may improve their teaching and in turn, be better able to stimulate their students to greater scholastic efforts.

Participating teachers will each receive a "live" research problem to solve during the eight-week, 40 hour per week session. They will receive $75 per week stipends from the NSF grant, and will also be given dependency and travel allowances.

Interested teachers can obtain further information by contacting: Dr. Sidney Miller, department of chemistry, Illinois Institute of Technology, Chicago 16, Illinois.

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FOR RELEASE: Immediate

Date Mailed: 1/11/61

The appointment of Dr. David W. Levinson as a metallurgical advisor at Armour Research Foundation has been announced by Dr. Donald J. McPherson, ARF director of metals research.

His appointment marks the first time that this scientific post has been utilized in metals research at ARF. Previously he served as an assistant director of metals research.

Levinson, who received his doctorate at Illinois Institute of Technology, became affiliated with the Foundation in 1952. He is a widely recognized authority and speaker on alloy systems and their potential applications, and also has written many technical papers. At one time he was an instructor in IIT's metallurgical engineering department.

He and his family reside at 624 Berglund pl., Northbrook, Ill.

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OR RELEASE: Immediate

Date Mailed: 1/12/61

The appointment of Peter H. Wyckoff as assistant director of physics research has been announced by Dr. Leonard Reiffel, director of physics research at Armour Research Foundation.

For the past 15 years, Wyckoff has been chief of the aerophysics laboratory at Air Force Cambridge Research Center, Bedford, Mass. He served as chief scientist for the Air Force International Geophysical Year rocket program at Fort Churchill, and in 1956 successfully directed the launching of the first Aerobee and first Nike Cajun rocket launched from Canadian soil. Currently he is a member of the executive committee of the Rocket and Satellite Research Panel, and a former member of the U.S. Civil Service Board of Examiners.

Wyckoff received a B.S. degree in electrical engineering at the Carnegie Institute of Technology and his master's in electrical engineering at California Institute of Technology. He also did graduate work in nuclear physics at the University of Pittsburgh.

He is the author of many technical papers, and is affiliated with the American Rocket Society, American Geophysical Union, Institute of Radio Engineers, American Institute of Electrical Engineers, and is a Fellow of the American Association for the Advancement of Science.

He and his family will reside in Chicago.

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OR RELEASE: Immediate

Date Mailed: 1/13/61

Orville T. Barnett (8911 S. Cregier), assistant director of metals research at Armour Research Foundation, will discuss "Filler Metals for Maintenance Welding," at the National Plant Maintenance and Engineering Conference, Jan. 23, at the Palmer House.

Presiding at the welding session will be Harry Schwartzbart (8760 S. Sacremento, Evergreen Park, Ill.), also an assistant director of metals at ARF The conference will be held Jan. 23-26. Exhibits in conjunction with the conference will be at the International Amphitheatre.

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Charles Sengstock, Ext.745

R RELEASE: Immediate

Date Mailed: 1/18/61

The 1961 Computer Applications Symposium sponsored by Armour Research Foundation will be held October 25 and 26 at the Morrison Hotel, Chicago.

Invited papers will represent business and management, and engineering and scientific applications. The conference will stress user experience in computer application and programming techniques.

Inquiries concerning the conference should be addressed to Benjamin Mittman, conference program chairman, Armour Research Foundation, 10 W. 35th St., Chicago 16, Ill.

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R RELEASE: Immediate

Date Mailed: 1/18/61

Average total dustfall for Chicago during the month of December was 43.4 tons per square mile. This reading was lower than the reading for both a year ago (51.9 tons, December 1959) and for November of 1960 (40.0 tons), according to research engineer Samuel Radner, Armour Research Foundation.

Two highest readings for the month were recorded at the two loop stations: State and Adams (96.1 tons) and 33 N. LaSalle (93.5 tons), for an average of 94.8 tons per square mile.

The lowest readings were recorded at 1620 W. 99th (16.7 tons) and 7350 Pratt (16.8 tons).

Here are the dustfall readings for November and December of 1960 and for December 1959 as recorded at the 24 collecting stations in the city.

-more-

CHICAGO TOTAL DUSTFALL
Trends by Station
December, 1960

Ward No.	Station Address	Dec. 1960	Nov. 1960	Dec. 1959
		Readings in tons per square mile		
1	State and Adams	96.1	59.0	114.1
1	33 N. LaSalle	93.5	78.1	88.3
	Loop Average	94.8	68.6	101.2
1	2135 S. Michigan	66.7	57.7	79.9
4	825 E. 44th	36.3	38.2	57.6
5	1362 E. 59th	37.1	34.1	62.4
7	7531 Stony Island	62.9	47.0	66.6
9	67 W. 113th Pl.	36.3	23.7	33.4
10	8858 Marquette	44.2	30.5	46.9
13	3105 W. 63rd	44.3	34.3	36.9
13	6140 S. Melvina	49.0	44.4	34.9
17	7559 Eggleston	24.9	21.8	33.7
19	1620 W. 99th	16.7	15.3	21.6
22	3608 Ogden	30.3	31.0	59.5
26	1500 W. Monroe	49.9	53.9	49.8
30	5055 Fulton	34.6	47.4	56.9
32	2940 W. Cortland	36.3	42.3	49.0
36	5602 Belden	19.3	20.1	40.5
40	3944 N. Sawyer	46.0	45.0	39.0
41	7350 Pratt	16.8	14.6	21.9
42	54 W. Hubbard	65.8	58.8	67.8
44	551 Grant Pl.	51.1	42.2	70.8
46	3532 Sheffield	68.0	88.8	70.2
49	1622 Pratt Blvd.	25.7	24.4	33.9
12	2240 W. 37th	40.3	36.9	59.4
	Average (Including Loop)	43.4	40.0	51.9

TENTATIVE PROGRAM

1961 Meeting

AMERICAN POWER CONFERENCE

SHERMAN HOTEL

March 21, 22 and 23, 1961

TUESDAY, MARCH 21, 1961.

8:30 AM. REGISTRATION -- Mezzanine Floor -- Sherman Hotel.

9:30 AM - 12:00 Noon. OPENING MEETING -- Grand Ballroom.

Chairman: Thomas Ayers, Vice President, Commonwealth Edison Company, Chicago, Illinois.

Co-Chairman: Burgess H. Jennings, Professor of Mechanical Engineering, Northwestern University, Evanston, Illinois.

a. Invocation: The Reverend J. Donald Roll, S.J., Chairman, Physics Department and Director of the Seismological Station, Loyola University, Chicago, Illinoi

b. William F. Crawford, President, Edward Valves Inc. and President, Republic Flow Meters Company, Subsidiaries of Rockwell Manufacturing Company, Chicago, Illinois. Our Changing Perspectives.

12:15 PM. JOINT APC - ASME LUNCHEON -- Bernard Shaw Room. Sponsored by the American Society of Mechanical Engineers.

Chairman: William H. Byrne, President, American Society of Mechanical Engineers.

Co-Chairman: E. J. Carraro, Chairman, Chicago Section ASME.

Speaker: Sherman Knapp, President, Edison Electric Institute.

2:00 - 5:00 PM. CENTRAL STATIONS I -- Avon No. 8 -- A Supercritical Plant.- Grand Ballroom. Sponsored by the Power Division of ASME.

Chairman: J. H. Harlow, Chief Mechanical Engineer, Philadelphia Electric Company, Philadelphia, Pa.

Co-Chairman: H. L. Solberg, Associate Dean of Engineering, Purdue University, Lafayette, Indiana.

a. Initial Operation of Avon No. 8 - A Supercritical Plant. N. F. Gill, Manager, Mechanical Engineering, Cleveland Electric Illuminating Company, Cleveland, Ohio.

b. Supercritical Boiler Operating Experiences at Avon No. 8. J.I.Argersinger, Engineer, Research and Product Development, and Gordon C. Smith, Field Service Engineer, Combustion Engineering, Inc., Windsor, Conn.

c. The Avon Superpressure Steam Turbine - Generator Unit. C.C.Franck, Sr. Consulting Engineer, and J. A. Carlson, Supervisory Engineer, Steam Division, Lester, Pa.

2:00 - 5:00 PM - HIGH VOLTAGE TRANSMISSION - Louis XVI Room. Sponsored by the Power Division of AIEE.

Chairman: W. A. Lewis, Director, AIEE, Research Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Illinois.

Co-Chairman: G. S. Reeder, Chairman, Power Section, Chicago Section, AIEE, Commonwealth Edison Company, Chicago, Illinois.

a. Switching Surges Due to Energization or Reclosing. I.B.Johnson, Manager; D.D.Wilson and R.F.Silva, Transmission and Distribution Analytical Engineerin Electric Utility Analytical Engineering Operation, General Electric Company, Schenectady, New York.

b. Investigations on Wood Pole 345 Kv Test Line. T.W.Schroeder, Manager, Power Production, Illinois Power Company, Decatur, Illinois and J.E.O'Neil, Electric Utility Engineer, Westinghouse Electric Corporation, East Pittsburgh Pa.

c. A Theory Regarding the Generation of Radio Noise of High-Voltage Transmission Lines. S.B.Griscom, Advisory Engineer, Electric Utility Engineering, Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

d. Radio Interference Design Factors for EHV Lines. R.J.Mather, Principal Technical Assistant, Transmission Design Section and Edward H.Gehrig, Insulation Coordination Engineer, Bonneville Power Administration, Portland, Oregon.

2:00 - 5:00 PM. INDUSTRIAL I -- Space Air Conditioning -- Assembly Room. Sponsored by American Society of Heating, Refrigerating and Air Conditioning Engineers.

Chairman: Gilbert F. Carlson, Chief Engineer, Specialties Division, Bell & Gossett Company, Morton Grove, Illinois.

Co-Chairman: William V. Richards, President, Illinois Chapter, ASHRAE, H.A. Phillips & Company, Chicago, Illinois.

a. Off Peak Electricity Using Stored Water for Space Heating. Stanley B.Tupper, Engineering Department, Bell & Gossett Company, Morton Grove, Illinois and Raymond J.Vertovec, Engineer, Electric Heat Technical Section, Commonwealth Edison Company, Chicago, Illinois.

b. A New Approach to Heat Pumps. Gilbert M.Warren, Sales Engineer, Carrier Air Conditioning Company, A Division of Carrier Corporation, Chicago, Illinois.

c. Thermoelectric Heating and Cooling Devices. J.D.Richards, Thermoelectric Products, Minnesota Mining and Manufacturing Company, St. Paul, Minn.

d. High-Temperature High-Pressure Hot Water Heating. D.Lorne Lindsay, Professional Engineer, Wiggs, Walford, Frost and Lindsay, Consulting Engineers, Montreal, Canada.

2:00-5:00 PM. INDUSTRIAL II -- ELECTRICAL -- Crystal Room. Sponsored by Industrial Group, Chicago Section, AIEE.

Chairman: W. H. Cook, Chairman, Industrial Group, Chicago Section, AIEE, Western Electric Company, Chicago, Illinois.

Co-Chairman: J. N. Banky, Manager, Heavy Industrial Sales, Allis-Chalmers Manufacturing Company, Chicago, Illinois.

INDUSTRIAL II **ELECTRICAL (Continued)

a. Application and Operation of an 11000 Hp Motor in a Petroleum Refinery. K R.Sheetz, Senior Staff Engineer, General Engineering Department, American Oil Company, Whiting, Indiana.

b. Factors to Consider in the Selection of Diesel Electric Generators for Emergency Power. E.A.Gibbons, Product Manager, Diesel Generators, Engine Handling Divisior Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

c. Time for More Talk and Less Action. W.J.Neiswander, Plant Engineer, Western Electric Company, Inc., New York, N. Y.

2:00 - 5:00 PM. WATER TECHNOLOGY I -- High Purity Water -- Bal Tabarin Room.

Chairman: M.D.Baker, Chief Chemist, West Penn Power Company, Springdale, Pa.

Co-Chairman: G.A.Hellman, Associate Professor of Mechanical Engineering, Michigan College of Mining and Technology, Houghton, Michigan.

a. Effective Deaeration in Surface Condensers - Recent Experiences. Paul J.Hamm, Manager, Condenser and Pump Division, C.H.Wheeler Manufacturing Company, Philadelphia, Pa.

b. A New Method for Increasing Sensivity of Conductivity Measurement of Steam Purity. R.W.Lane, Chemist; C.H.Neff, Assistant Chemist, and T.F.Larson, Head, Chemistry Section, Illinois State Water Survey, Urbana, Illinois.

c. Application Considerations - Demineralization and Flash Evaporation. M.E. Gilwood, Director of Development, Ionac Chemical Company, Birmingham, New Jersey, and J. Mack, Process Engineer, The Permutit Company, New York, both Divisions of Pfaudler Permutit Company, Inc., New York City.

EVENING FORUM

8:00 - 10:00 PM -- Grand Ballroom.

FUTURE SOURCES OF ELECTRICAL POWER

Chairman: L. Reiffel, Director of Physics Research, Armour Research Foundation, Chicago, Illinois.

Co-Chairman: David C. White, Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass.

a. Nuclear Fuel Cells Research, R. W. Henderson, Allison Division of General Motors, Indianapolis, Indiana.

b. The Status of Research in Thermonuclear Power. Sterling Colgate, Lawrence Radiation Laboratory, Livermore, California.

c. Engineering Frontiers of Thermonuclear Power. C.W.Little, Jr., Director of Operations, C-Stellerator Associates, Princeton, New Jersey.

WEDNESDAY, MARCH 22, 1961.

9:00 AM - 12:00 Noon. CENTRAL STATIONS II.-- Commercial Operation of the Breed Plant — Grand Ballroom.

THE DUAL BASIC CONCEPTS BEHIND THE BREED PLANT

1. As a generating station in the western most part of the American Electric Power System.

2. As a new technological frontier in the field of economical mass generation of steam -- electric energy.

Chairman: Philip Sporn, President, American Electric Power Service Corporation, New York, N. Y.

Co-Chairman: Edwin H. Snyder, Vice President in Charge of Electric Operations, Public Service Electric and Gas Company, Newark, New Jersey.

a. The Project. Philip Sporn, President, AEPSC

b. The Plant. T. T. Frankenberg, Head, Mechanical Engineering Division, AEPSC

c. Steam Generation. G. W. Rice, Assistant Head, Mechanical Engineering, Division, AEPSC.

d. Turbine. C. P. Lugrin, Head, Turbine Engineering Section, AEPSC.

e. Chemistry. E. B. Morris, Head, Chemical Engineering Section, AEPSC.

f. Generator and Electrical Features. C. P. Zimmerman, Head, Electrical Engineering Division, AEPSC.

Supported by the following papers and co-authors:

1. Breed Plant. Philip Sporn, President and S. N. Fiala, Vice President and Chief Engineer, American Electric Power Service Corporation.

2. Steam Generator. G. W. Rice, Assistant Head, Mechanical Engineering Division, AEPSC; Ed Griffin, Field Supervisor, Service Engineering and Paul Koch, Manager of New Products, Examination Engineering, The Babcock & Wilcox Company.

3. Turbine-Generator. P. G. Ipsen, Supervisor of Turbine Control Engineering; J. A. Massingill, Supervisor, Generator Electrical Engineering, General Electric Company; C. P. Lugrin, Head, Turbine Section and J. A. Oliver, Sr. Engineer, Electrical Engineering Division, American Electric Power Service Corporation.

4. Thermal Cycle Equipment and Performance. T. T. Frankenberg, Head, Mechanical Engineering Division and J. A. Tillinghast, Staff Engineer, American Electric Service Corporation.

5. Instrumentation and Controls. A. S. Grimes, Head, Results Section and W. S. Morgan, Senior Engineer, AEPSC.

6. Chemical Control and Chemical Cleanup. E. B. Morris, Head, Chemical Section, AEPSC.

7. Piping Systems. G. E. Lien, Head, Piping and Metallurgy Section and A. J. Breugelmans, Engineer, Mechanical Engineering Division, AEPSC

8. Plant Electrical Features, Switching and Transmission. C.P.Zimmerman, Head, Electrical Engineering Division and T. J. Nagel, Head, System Planning and Analytical Division, AEPSC.

9. Civil Engineering Work, Coal Handling and Supply. H.A.Kammer, Executive Vice President, Engineering, Construction and Purchasing and E.A.Kammer, Head, Design Division, AEPSC.

9:00 - 12:00 Noon. AUTOMATION AND CONTROL -- Louis XVI Room.

Chairman: J. H. Kinghorn, Technical Vice President, Power Division, AIEE, American Electric Power Service Corporation, New York, N. Y.

Co-Chairman: M. Riaz, Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn.

a. Automation of System Operation. L. K. Kirchmayer, Manager, System Generation Analytical Engineering and H. J. Fiedler, Application Engineer, System Protection and Control Engineering, Electric Utility Analytical Engineering Operation, General Electric Company, Schenectady, New York.

b. Automatic Power Plants - Application of Control Computers. B. L. Lloyd, Manager, Generation Section, Electric Utility Engineering and R. E. Squires, Engineering Manager, System Control and Instrumentation Section, Power Control and Communications Department, Westinghouse Electric Corporation, East Pittsburgh, Pa.

c. The Installation of Automatic Controls in an Existing Power Plant for Minimum Down Time. T. H. Bloodworth, Senior Systems Engineer, Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin; J. A. Reich, Production Manager, Gulf States Utilities Company, Beaumont, Texas and L. Merle Wilson, Manager, Milwaukee Operations for Consolidated Systems Corporation, Monrovia, Calif.

d. Monitoring, Logging and Computing Performance for an Existing Coal and Oil Fired Station. Maurice J. Feldmann, Assistant Superintendent of Engineering and Construction and John W. Purssell, Jr, Assistant Superintendent of Production, Boston Edison Company, Boston, Mass.

9:00 - 12:00 Noon. FUELS -- Assembly Room -- Sponsored by Fuels Division of ASME.

Chairman: James R. Jones, Peabody Coal Company, Chicago, Illinois.

Co-Chairman: Julian Meserve, Dow Chemical Company, Midland, Michigan.

a. Coal Properties as Related to the Corrosion of High Temperature Boiler Surfaces. J. T. Reese, Research Engineer and James Jonakin, Section Leader, Fuels Research, Combustion Engineering, Inc., Chattanooga, Tenn. and J.G. Koopman, Vice President, Electric Energy, Inc., Joppa, Illinois.

b. Liberation of Pyrite from Steam Coals. R.A.Glenn, Supervising Chemist and R.D.Harris, Project Engineer, Bituminous Coal Research, Inc., Columbus, Ohio.

c. Effect of Pulverizer Design on Furnace Performance. H.M.Rayner, Mechanical Engineer, Western Electric Company and P.F.Seibold, Design Engineer, Riley Stoker Corporation, Worcester, Mass.

9:00 - 12:00 Noon. SYMPOSIUM ON PEAKING I -- HYDROELECTRIC -- Crystal Room.

Chairman: A. J. Ackerman, Consulting Engineer, Madison, Wisconsin.

Co-Chairman: James R. Villemonte, Professor of Civil Engineering, University of Wisconsin, Madison, Wisconsin.

Session will be be devoted to peaking problems which are found on power systems with a substantial amount of hydroelectric generating capacity, resulting in redesign of Hydroelectric stations, or in the building of new stations with extremely low capacity factors and high installed capacity to permit carrying short term peaks. One of the papers will discuss the generation of peaking energy from a pumped storage plant specifically constructed for that purpose. Since no two systems are alike, discussions will be welcomed at the session to record briefly various current experiences in meeting exceptional peaks.

9:00 - 12:00 Noon. WATER TECHNOLOGY II -- INDUSTRIAL III - Bal Tabarin Room.

Chairman: J. F. Wilkes, Director of Research and Development, Dearborn Chemical Company, Chicago, Illinois.

Co-Chairman: A. B. Alter, Professor of Mechanical Engineering, Agricultural and Mechanical College of Texas, College Station, Texas.

a. Some Practical Solutions to Industrial Water Treatment Problems. R.S.Walters Supervisor, Technological Coordination, Power Production Division, United States Steel Corporation, South Works, Chicago, Illinois.

b. Boiler Scale Prevention by Use of Chelating Agents. J.C.Edwards, Power Engineer and E.A.Rozas, Chemical Engineer, Dow Chemical Company, Freeport, Texas.

c. Effective Temperature Measurement of Boiler Wall Tubes to Provide Safe Operating Control. J.W.Strub, Consultant, Engineering Service Division, Engineering Department, E.I.DuPont de Nemours and Company, Wilmington, Delaware.

d. Prevention of Corrosion in Steam Systems under Changing Load Conditions, Marcel Stein, Mechanical Engineer, Illinois Institute of Technology, Chicago, Illinois.

12:15:PM. APC - AIEE LUNCHEON -- Bernard Shaw Room. Sponsored by the American Institute of Electrical Engineers.

Chairman: Clarence H. Linder, President, American Institute of Electrical Engineers.

Co-Chairman: W. T. Larner, Chairman, Chicago Section AIEE, Illinois Bell Telephone Company, Chicago, Illinois.

Speaker: George E. Drach, Illinois State Senator, Springfield, Illinois.

Subject: Federal Versus State Regulation in the Development of Atomic Power.

2:00 - 5:00 PM. NUCLEAR POWER PLANTS -- Grand Ballroom.

Chairman: R. M. Casper, General Manager, Nuclear Power Division, Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

Co-Chairman: C. W. Terrell, Supervisor, Reactor Physics Section, Physics Research Division, Armour Research Foundation, Chicago, Illinois.

a. The Technical and Economic Status of Central Station Gas Cooled Reactors. Titus G. LeClair, Manager, Nuclear Power Applications, General Atomic, San Diego, California.

b. The Technical and Economic Status of Central Station Boiling Water Reactors. R. B. Richards, Manager of Engineering, Atomic Power Equipment Department, General Electric Company, San Jose, California.

c. The Technical and Economic Status of Central Station Pressurized Water Reactors. John W. Simpson, Vice President, Atomic Power Department, Pittsburgh, Pa.

2:00 - 5:00 PM. SYMPOSIUM ON PEAKING - THERMAL -- Louis XVI Room.

Chairman: Rolland H. Bradford, Regional Manager, Central Region, Ebasco Services, Inc., Chicago, Illinois.

Co-Chairman: R. C. Porter, Professor of Electrical Engineering, University of Michigan, Ann Arbor, Michigan.

a. Some Fundamental Factors Affecting Peaking. J. Howard Euston, Vice President Business Research Corporation, Chicago, Illinois and W. A. Lewis, Research Professor of Electrical Engineering, Illinois Institute of Technology, Chicago, Illinois.

b. Electromotive Power for Peaking Area Backup and Reserve. B. B. Brownell, Director of Research and Engineering, Electromotive Division of General Motors Corporation, La Grange, Illinois.

c. Gas Turbines for Peaking. W. D. Marsh, Application Engineer, Power Generation Engineering, Electric Utility Section, Schenectady, New York.

2:00 - 5:00 PM. SYSTEM PLANNING AND OPERATION -- Assembly Room. Sponsored bythe Power Division of AIEE.

Chairman: E. R. Moore, Manager of Engineering, The Detroit Edison Company, Detroit, Michigan.

Co-Chairman: J. J. Carey, Professor of Electrical Engineering, The University of Michigan, Ann Arbor, Michigan.

a. Automation of System Planning. F. J. Maginniss, Manager, Special Studies and Digital Analysis Engineering, G. D. Galloway, Application Engineer, System Generation Analytical Engineering and A.J.Wood, System Generation Analytical Engineering, Electric Utility Analytical Engineering Operation, General Electric Company, Schenectady, New York.

b. Results of a Year of Long Range Planning by Simulation. C.J.Baldwin, Generation Engineer, Electric Utility Engineering Department, Westinghouse Electric Corporation, East Pittsburgh, Pa. and J. A. Casazza, Transmission Planning Engineer, System Planning and Development Department, Public Service Electric and Gas Company, Newark, New Jersey.

c. Coordinated Use of Hydro and Steam Generation in a Large Interconnected System. Ross N.Brudenell, Chief, System Loading Branch, Division of Power System Operations and Jack H.Gilbreath, Supervisor, Operation Planning Section, Division of Power System Operations, Tennessee Valley Authority, Chattanooga, Tenn.

d. Daily Forecasting of Electric System Loads. S. S. Clair, Assistant Chief Load Dispatcher, Philadelphia Electric Company, Philadelphia, Pa.

2:00 - 5:00 PM. INDUSTRIAL IV - CENTRAL STATIONS III - STEAM GENERATORS.--Crystal Room.

Chairman: Chester R. Earle, Special Projects Editor, Power Engineering, Barrington, Illinois.

Co-Chairman: D.J.Renwick, Associate Professor of Mechanical Engineering, Michigan State University, East Lansing, Michigan.

a. Preventing Furnace Explosions -- The Application of Flame Detectors and Thei Function in a Complete Furnace Protecting System. W.L.Linvingston, Burner Group Leader and P.Gray,Jr., Research Engineer, Fuels Section, Kreisinger Development Laboratory, Combustion Engineering, Inc.,Chattanooga, Tenn.

b. Flue Gas Sampling and Analysis for O_2 in Cyclone Furnace Fired Boilers. F.C.Luxl, Field Engineer, Leeds and Northrup Company, Philadelphia, Pa., and J.J.Osochowsky, Results Engineer, Bridgeport Harbor Station, United Illuminating Company, Bridgepoint, Conn.

c. Application of Centrifugal Compressors to Soot Blower Systems. J.W.Locke, Assistant Manager, Contract Engineering and R.G.Thesing, Contract Engineer, Diamond Power Specialty Company, Lancaster, Ohio.

2:00 - 5:00 PM. WATER TECHNOLOGY III - Condensate Polishing -- Bal Tabarin Room.

Chairman: Louis F.Wirth,Jr., Manager, Ion Exchange Division, Nalco Chemical Company, Chicago, Illinois.

Co-Chairman: T.J.Hodan, Sales Manager, Water Conditioning Section, Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

a. Plant Experience, High Flow Rate, Externally Regenerated Condensate Polishing Demineralizers, Dresden Nuclear Generating Station. A.F.Sisson, Chemical Engineer, Generating Stations, Commonwealth Edison Company, Chicago, Illinois; R.C.Reed, Systems Specialist, Atomic Power Equipment Department, General Electric Company, San Jose, California and H.W.Frazer,Manager, Ion Exchange Department, Infilco, Inc., Tucson, Arizona.

b. Condensate Scavenging - Operating Results in Three Central Station Plants. V.J.Calise,General Sales Manager and J.A.Levendusky, Chief Research Engineer, Graver Water Conditioning Company, New York, N.Y.

ALL ENGINEERS DINNER

6:30 PM. Grand Ballroom.

Presiding: C.J.Forsberg, President, Wisconsin Power and Light Company, Madison, Wisconsin.

Entertainment: Spartan Bell Ringers of Michigan State University.

Speaker: To be announced.

THURSDAY, MARCH 23, 1961.

9:00 Am - 12:00 Noon. CENTRAL STATIONS IV - Grand Ballroom. Sponsored by the Power Division of the American Society of Civil Engineers.

Chairman: M.P.Aillery, Chairman, Power Division, Executive Committee, ASCE, Chief Structural Engineer, J.G.White Engineering Company, New York, N Y

Co-Chairman: Richard N. Bergstrom, Associate, Sargent & Lundy, Engineers, Chicago, Illinois.

a. TVA's Paradise Steam Plant with 650,000 -Kilowatt Units. R.A.Elliott,Chief Water Control Planning Engineer; W.F.Emmons, Chief Design Engineer and H.T.Lofft, Chief Construction Engineer, Tennessee Valley Authority, Knoxville, Tenn.

b. Application of a Governor Test Facility to Analysis and Design of Steam Turbine Generator Control Systems. J.K.Dixon, Thermal Power Department, Allis-Chalmers Manufacturing Department, Milwaukee, Wisconsin.

c. Comparison of Contractual Arrangements for Utility and Industrial Projects. William E. Hopkins, Consulting Engineer, Stone and Webster Engineering Corporation.

d. Cooling Pond or Cooling Tower -- An Overall Appraisal. W. R. Steur, Associate, Sargent & Lundy, Engineers, Chicago, Illinois.

9:00 AM - 12:00 Noon. POWER PLANT AUXILIARIES - Louis XVI Room. Sponsored by the Power Division of ASME.

Chairman: Charles D. Birget, Chief Mechanical Engineer, Commonwealth Associates, Inc., Jackson, Michigan.

Co-Chairman: K.G.Picha, Associate Director, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia.

a. Philadelphia Electric Company Multi-Stage Flash Evaporator. C.Capara, Engineer, Mechanical Engineering Department and W.B.Willsey, Assistant Chief Chemist, Operating Department, Philadelphia Electric Company and D. Crane, Design Engineer, Heat Exchanger Section and E.F.Stalcup, Senior Negotiation Engineer, Sales, Heat Transfer Division, Westinghouse Steam Division, Lester, Pa.

b. Corrosion and Vibration in Small Steam Turbines. Stanford Neal, Manager Advance and Development Engineering, and W.J.Caruso, Structural Engineer, Small Steam Turbine Department, General Electric Company, Fitchburg, Mass.

c. Second Progress Report on High Speed Boiler Feed Pumps. Igor J.Karassik, Consulting Engineer and Manager of Planning and Elliott F. Wright, Chief Engineer, High Pressure Pumps, Harrison Division, Worthington Corporation, Harrison, New Jersey.

d. Development and Operation of Fluid Drives for Turbine-Generator Driven Boiler Feed Pumps. R.D.O'Neil, Product Manager, Fluid Drives, American Standard, Industrial Division, Detroit, Michigan.

9:00 AM - 12:00 Noon. INDUSTRIAL V - Training of Plant Personnel -- Assembly Room. Sponsored by the National Association of Power Engineers.

Chairman: Floyd Cooper, President, American Association of Power Engineers.

Co-Chairman: Paul M. Anderson, Department of Mechanical Engineering, Iowa State University, Ames, Iowa.

a. On the Job Training for Power Plant Personnel by the Minnesota State Department of Education. Frank W.Randell, Itinerant Instructor, Steam and Power Plant Engineering, Trade and Industrial Unit, Vocational Division, Minnesota State Department of Education, Minneapolis, Minnesota.

b. An Adult Education Program for Power Plant Personnel. Harry R.Blount and Walt W.Cartwright, Des Moines Iowa Chapter of the National Association of Power Engineers.

c. The Neglected Area, Training the Handicapped for Service in Industrial Plants P. Chondholos, Chief of Vocational Councilling and William Kir-Stimon, Chief, Clinical Psychology and Director, Personal Councilling Service, Rehabilitation Institute of Chicago, Chicago, Illinois.

d. Our Experiences in Instrument Maintenance Training Programs. Roland C. Crambau, Instructor, Maintenance Education Department, Midland Division, The Dow Chemical Company, Midland, Michigan.

9:00 AM - 12:00 Noon - ELECTRICAL DISTRIBUTION -- Crystal Room.

Chairman: G.L.Welch, Midwestern Region Engineering Manager, Westinghouse Electric Corporation, Chicago, Illinois.

Co-Chairman: R. E. Armington, Professor of Electrical Engineering, Pennsylvania State University, University Park, Pa.

a. New Developments in Residential Underground Distribution. F.F.Lawrence, Manager, Distribution Engineering Section, Electric Utility Engineering Department, East Pittsburgh, Pa. and R. B. Pherson, Manager, Commercial Design Engineering, Sharon, Pa. - both of Westinghouse Electric Corporation.

b. Overhead Electric Distribution Line Construction Equipment and Practices. K.S.Field, Engineering Consultant, Ebasco Services, Inc., New York, N.Y.

c. The Self-Regulating Transformer and its Impact upon Future Distribution Planning. Dennis A. Manning, Manager, Transformer Sales and Service, Line Material Industries and McGraw-Edison Division, Zanesville, Ohio.

d. Planning for Transition from 4-Kv to 13.2 - Kv Distribution. Raymond Duer, Electric Distribution Department, Cincinnati Gas and Electric Company, Cincinnati, Ohio.

9:00 - 10:30 AM. WATER TECHNOLOGY IV - Ion Exchange - Operations - Bal Tabarin Room.

Chairman: S.F.Whirl, Chemical Operating Engineer, Duquesne Light Company, Pittsburgh, Pa.

Co-Chairman: W. R. Homan, Chief Chemist, Commonwealth Edison Company, Chicago, Illinois.

a. Mixed Bed Demineralizers in Series for Optimum Operating Control. Eugene Schmidt, Technical Director, L-A Water Conditioning, Inc., Glendale, California.and Norbert W. Sager, Chief Steam Plant Engineer, City of Burbank, California.

b. Four Years Operating Experience with a 3200 GPM Demineralizer. R.I.Smith, Assistant to Chief Engineer and H.D.Rettin, Engineer, Public Service Electric and Gas Company, Newark, New Jersey.

10:30 AM - 12:00 Noon. WATER TECHNOLOGY V - SEA WATER CONVERSION - Bal Tabarin Room.

Chairman: R.A.Lorenzini, Vice Chairman, Boiler Feedwater Studies Research Committee, ASME, Chief Engineer, Foster Wheeler Corporation, New York, N.Y.

Co-Chairman: Archie H.Easton, Professor of Civil and Mechanical Engineering, University of Wisconsin, Madison, Wisconsin.

a. Operation of the Sea Water Distillation Plant at Mandalay Station. R.E. Wistler, Mechanical Engineer, Southern California Edison Company, Los Angeles California.

b. The Economics of Sea Water Distillation and Power Generation. C.E.Sonderman, Partner, Singmaster and Bryer, New York, N. Y.

12:15 PM. JOINT APC - WSE LUNCHEON - Bernard Shaw Room. Sponsored by the Western Society of Engineers.

Chairman: Raymond D. Maxson, President, Western Society of Engineers.

Co-Chairman: Joseph C. Boyce, Vice President and Dean of The Graduate School, Illinois Institute of Technology.

Speaker: Titus G. LeClair, Manager, Nuclear Power Applications, General Atomic, San Diego, California.

Subject: The Future of Atomic Energy.

2:00 - 5:00 PM. CENTRAL STATIONS V - Grand Ballroom.

Chairman: Ben G. Elliott, Professor Emeritus of Mechanical Engineering, University of Wisconsin, Madison, Wisconsin.

Co-Chairman: Reno C. King, Associate Professor of Mechanical Engineering, New York University, New York, N.Y.

CENTRAL STATIONS V (Continued)

a. Improvement in Economics of a 625 Mw Combined Cycle Plant Over a Conventional Steam Cycle Plant. H.J.Peterson, Vice President and Power Consultant, United Engineers and Constructors,Inc., Philadelphia,Pa. and J.O.Stephens, Manager of Engineering-Gas Turbines, Westinghouse Electric Corporation, Lester, Pa.

b. Binary Cycle for Power Generation - Steam - Peyton - 12 System. David A. Aronson, Consultant, Advanced Products Division, Worthington Corporation, Harrison, New Jersey.

c. Automatic Programming for Optimized Power Plant Design. F.H.Westervelt, Assistant Professor of Mechanical Engineering and Research Associate in Computer Center, the University of Michigan, Ann Arbor, Michigan and C.D. Birget, Vice President, Commonwealth Associates, Inc., Jackson, Michigan.

2:00 - 5:00 PM. ELECTRICAL APPARATUS -- Louis XVI Room.

Chairman: F.M.Scott, Manager, Utility Sales, Allis-Chalmers Manufacturing Company, Chicago, Illinois.

Co-Chairman: M.S.Helm, Professor of Electrical Engineering, University of Illinois, Urbana, Illinois.

a. New Standards for Power Circuit Breakers and Their Effect on Design, Test and Application. R.C.Van Sickle, Advisory Engineer, Power Circuit Breaker Engineering, Westinghouse Electric Corporation, Trafford, Pa.

b. Harmonic Excitation of Synchronous Machines. F.I.Biggs, Engineering Manager, and P.I.Nippes, Manager, Turbine Generator Engineering, Ridgeway Plant, Elliott Company Division of Carrier Corporation, Ridgeway, Pa.

c. Whys and Hows of Auto - Transformers. Leonard R. Reid, Supervisory Engineer, Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

d. Thermal Upgrading of Power Transformers. J.H.Carpenter, Advance Product Engineer, Medium Transformer Department, General Electric Company, Rome, Georgia and J.R.Meador, Manager, High Voltage Laboratory, Power Transformer Department, General Electric Company, Pittsfield, Mass.

2:00 - 5:00 PM. INDUSTRIAL VI - Economics of Power Plant Operation - Assembly Room.

Chairman: Kenneth R. Hodges, Chief Engineer, Sears Roebuck and Company.

Co-Chairman: Roy Sahlstrom, Faville LeVally Corporation, Chicago, Illinois.

a. How Small Plants can Conserve Utilities and Reduce Cost. George R.Chadwick, Consulting Engineer, Chicago, Illinois.

b. Controlling the Cost of Electricity for Industrial Plants. R.H.Bradford, Regional Manager, Central Region, Ebasco Services, Inc., Chicago, Illinois.

c. Departmental Allocation of Plant Utility Rates. M.B.Golber, Supervisor, Utilities and Power Plants, Armour & Company, Chicago, Illinois.

2:00 - 5:00 PM. COMPUTERS AND NETWORK ANALYZERS -- Crystal Room.

Chairman: E.L.Nicolson, Manager, Application Engineering, General Electric Company, Chicago, Illinois.

Co-Chairman: E.B.Eggers, Research Engineer, Illinois Institute of Technology, Chicago, Illinois.

a. Digital Load Flow Techniques. J.J.Skiles, Professor of Electrical Engineering, University of Wisconsin, Madison, Wisconsin and Consultant to Allis-Chalmers Manufacturing Company; J.B.Cage, Mathematician and H.D.Bickley, Engineering Analyst, Engineering Analytical Section, Allis Chalmers Manufacturing Company, Milwaukee, Wisconsin.

b. Digital Solution of Power System Transcients. L.O.Barthold, Transmission and Distribution Analytical Engineer, Electric Utility Analytical Engineering Operation, General Electric Company, Schenectady, New York.

c. Coordinated Operation of a Medium Sized Digital Computer and A-C Network Analyzer. H.D.Hunkins, Head, Power System Planning Unit, Bureau of Reclamation, Department of the Interior, Denver, Colorado.

d. Automatic Writeout Equipment Used with A-C Network Calculator. Rodney F. Gilbreath, Westinghouse Electric Corporation, East Pittsburgh, Pa.

e. Improvements in the Bonneville Network Analyzer. K.Tuttle, Electrical Engineer, Bonneville Power Administration, Portland, Oregon.

2:00 - 5:00 PM. ATMOSPHERIC POLLUTION - Bal Tabarin Room. Sponsored by the Power Division of ASME.

Chairman: Robert M. Vanduzer, Assistant Manager of Operations, The Detroit Edison Company, Detroit, Michigan.

Co-Chairman: George L. West, Jr., Department of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Michigan.

a. Atmospheric Pollution Prediction by Model Studies of Industrial Stacks. F.K.Boutwell, Assistant Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Michigan.

b. Topographical Influence on the Behavior of Stack Effluents. F.Wendell Hewson, Professor of Meteorology; Eugene W.Bierly and Gerald C.Gill, Department of Civil Engineering, University of Michigan, Ann Arbor, Michigan.

c. Review of Commonwealth Edison Company's Experience with Precipitators. M.J.Archbold, General Mechanical Engineer, Commonwealth Edison Company, Chicago, Illinois.

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R RELEASE

MEMO TO: Editor

REGARDING: 1961 American Power Conference

DATE & PLACE: March 21-23 at the Sherman Hotel, Chicago

Enclosed is a copy of the tentative schedule of sessions of the 23rd annual American Power Conference, to be held March 21-23 at the Sherman Hotel, Chicago. The conference is sponsored by Illinois Institute of Technology in cooperation with nine national technical societies and 14 universities.

Please let us know which of the technical papers you are interested in and we will send copies to you as soon as they become available.

Copies of all papers received will be available in the press room during the conference.

PLEASE NOTE: Publication date should not precede the date the paper is presented. Credit should be given to "The American Power Conference, sponsored by Illinois Institute of Technology March 21-23." Authors may grant exclusive publication rights if they wish. If you receive a copy of a paper from this office, you may consider yourself free to publish that paper in part or in its entirety.

For further information please telephone or write:

James Stathas
Public Relations
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R RELEASE:

Immediate

Charles Sengstock, Ext. 745

Date Mailed: 1/23/61

A special six-week management program for U. S. Army Ordnance officers will be sponsored by Armour Research Foundation beginning Jan. 23. Object of the program is to familiarize the officers with the techniques and procedures involved in operating a research establishment.

Five field grade officers, hand picked for their outstanding academic and service records, and leadership, will participate in the six-week course, according to Lt. Col. James R. Mills, Jr., Commanding Officer, Chicago Ordnance District.

In addition to their studies and observation activities in all nine of the Foundation's research divisions, they will attend the two-year evening executive program offered by the University of Chicago.

Particular stress, according to Niels C. Beck, assistant director of ARF, will be placed on problem areas and management tools to solve them, programming decisions, labor relations, and business office activities especially in terms of administrative assistants in the research divisions.

This is the second program of its type to be offered by the Foundation. The first was held in 1958.

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)R RELEASE: IMMEDIATE

CHICAGO, ILL., Jan. 24--Donald M. Graham, director and vice chairman of the board of the Continental Illinois National Bank and Trust Co. of Chicago, has been named to the board of trustees of Illinois Institute of Technology, it was announced today by Dr. John T. Rettaliata, president.

Graham replaces Thomas Drever, who had been a member of Illinois Tech board since 1939.

Drever, who has now become an honorary Illinois Tech trustee, is the retired chairman of the board of American Steel Foundries.

After Graham graduated from the Northwestern Law School in 1936, he joined the law firm of Mayer, Meyer, Austrian and Pratt, and became a partner in 1945. In 1952, he joined the Continental Illinois National Bank and Trust Co. as vice president, became senior vice president in 1959, and was named to his present position July 1, 1960.

Graham is also director of the Illinois Power Co., Chicago Association of Commerce and Industry, and Ekco Products Co.

He is an active member of numerous civic organizations including the Metropolitan Housing and Planning Council; Board of Education of Evanston Township high school; St. Francis Hospital Joint Advisory Committee, Evanston; Regional Advisory Committee of the Midwest Office of the Institute of International Education; and is a member of the Board of Trustees of Chicago-Wesley Memorial Hospital.

Graham resides with his wife and three children at 2247 Orrington Ave., Evanston.

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RELEASE: Immediate

Date Mailed: 1/24/61

Illinois Institute of Technology has received a grant of $9,950 from the Office of Ordnance Research, U. S. Army, for the purpose of organizing and conducting an International Symposium on Photoelasticity.

Formulation of the proposed program and contract negotiations were made by Dr. M. M. Frocht, 4940 S. East End, IIT professor of mechanics and director of experimental stress analysis, whose research has been sponsored by the OOR for a number of years. The symposium will be held at Illinois Tech on October 29-31, 1961. The only other meeting of this kind was held in Brussels, Belgium, in 1954.

Scientists from the U. S., England, France, Sweden, Switzerland, Germany and Japan are expected to present papers.

According to Frocht, the symposium's chairman, "the program will be comprehensive and will embrace basic aspects, such as two and three dimensional photoelasticity, photoplasticity, dynamic photoelasticity and photothermoelasticity.

"The aim will be to encompass on an international scale the fundamental research activities in these areas, as well as significant technological applications," he said.

Besides IIT and the Army Ordnance Research Office, other co-sponsoring organizations are the Society for Experimental Stress Analysis, the Office of Naval Research, the Office of Scientific Research, U. S. Air Force, the applied mechanics division of the American Society of Mechanical Engineers, and the Chicago chapter of the ASME.

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Deadline for submitting titles and abstracts of papers for possible presentation is January 31, 1961. They may be mailed to Dr. P. D. Flynn, associate professor of mechanics, secretary of the International Symposium on Photoelasticity, Illinois Institute of Technology, Chicago 16, Ill.

The symposium is coordinated with the First International Congress on Experimental Mechanics, which is organized by the Society for Experimental Stress Analysis, and which will be held in New York, N. Y., on November 1-3, 1961.

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OR RELEASE: Immediate

Date Mailed: 1/25/61

"You Can Bank On It," a lecture series featuring administrative and research leaders at Armour Research Foundation, will be presented February and March under the auspices of the American Institute of Banking (Chicago chapter).

The schedule of seven evening lectures opens February 7 with an overall appraisal of the impact of technical developments on business, industry and banking. Speaker will be Dr. Haldon A. Leedy, director of Armour Research Foundation.

All sessions will be for one hour and will be held at the Institute's offices, 105 W. Adams st., at 5:30 p.m.

Primarily the lectures will be devoted to the interpretation of scientific and technical developments, and the changes they are expected to bring about in commerce and banking and the business community.

The future of major Chicago industries, the outlook for research, transportation and personal service industries, and the promise and problems of international trade will be among the subjects to be discussed.

The series was planned and organized by ARF's techno-economics research division in conjunction with the local chapter of the American Institute of Banking.

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NOTE: PROGRAM SCHEDULE ATTACHED

LECTURE SERIES -- YOU CAN BANK ON IT*

Date	Speaker	Topic
Feb. 7	Dr. Haldon A. Leedy, director, Armour Research Foundation	Appraisal of the Impact of Likely Technical Developments in Business, Commerce, and Banking
Feb. 14	Dr. Nicholas A. Weil, director, mechanics research, Armour Research Foundation	The Outlook for Three Major Chicago Industries (metals, electrical equipment)
Feb. 21	George Philips, assistant director, techno-economics research, Armour Research Foundation	The Outlook for Five Growing Service Industries (research, transportation, capital leasing, contract maintenance, and personal service)
Feb. 28	Irving Canton, assistant director, international research, Armour Research Foundation	The Promise and the Problem of International Trade
March 7	Paul Zimmerer, Director of Research, Chicago Department of City Planning	Resulting Changes in the Metropolitan Chicago
March 14	John K. Diederichs, director, techno-economics research, Armour Research Foundation	Changes in Consumer Spending, Activity and Demand
March 21	Virgil Disney, director, electronics research, Armour Research Foundation	Likely Changes in Banking

* All sessions at 5:30 p.m., at the Institute's offices, 105 W. Adams St.

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Date Mailed: 1/26/61

Gwendolyn Brooks, 7428 S. Evans, Pulitzer Prize winning Chicago poet, will be featured guest, Sunday, Jan. 29, on the television program, "The American Scene: Viewing the Arts." This program, one in a series sponsored by the University Broadcasting Association, is produced by Illinois Institute of Technology.

Miss Brooks won the Pulitzer Prize for Poetry in 1950, which was awarded for her poem, "A Street in Bronzeville." Among other achievements, she was named one of ten women of the year in 1945 by Mademoiselle magazine, she was recipient of an award for creative writing granted by the American Academy of Arts and Letters in 1946, and also received the Guggenheim Fellowship for creative writing in 1946.

Dr. Howard P. Vincent, IIT professor of language, literature and philosophy, and director of the department, will serve as moderator. The program will appear on WNBQ, channel 5, at 8:30 a.m., and will also be broadcast on radio, WMAQ, at 7 a.m.

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OR RELEASE: Immediate

Date Mailed: 1/26/61

Robert W. Blodgett has been promoted to assistant business manager at Armour Research Foundation, W. E. Lambert, controller of the Foundation announced.

He is a graduate of the University of Illinois, and became affiliated with ARF four years ago. Previously he had served as an administrative supervisor in the business office.

Blodgett served four years as a Navy officer and spent 25 months in Korea. He and his family reside at 927 Forest av., Evanston, Ill.

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)R RELEASE: ON OR AFTER MONDAY, Jan. 30, 1961

Date Mailed: 1/26/61

A new welding process that holds a promise for greater efficiency in spot, seam and projection welding has been developed by research metallurgists at Armour Research Foundation.

It is termed fiber metal resistance welding, and its basic concept involves fiber metallurgy, an ARF development in which thin fibers of metal are interlocked like a felt cloth.

Fiber metal resistance welding uses a piece of fiber metal sheet between surfaces that are to be resistance welded.

According to Harry Schwartzbart, ARF assistant director of metals research, the fiber metal sheet greatly increases the ratio of the contact resistance to the bulk resistance, allowing the metal in the fiber mat to reach its melting point faster, while the base metal remains relatively cold.

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He said the advantages of this new process are:

1) Greater efficiency, and lower power requirements than in conventional resistance welding.

2) Offers the possibility of making resistance welds of high conductivity metals like copper.

3) Ability to weld cold-worked or heat-treated metals without destroying weld properties through recrystallization. This is important in resistance welding of refractory metals like tungsten and molybdenum.

4) In projection welding, it allows more relaxed dimensional control and fit-up, greater reproducibility, and ability to weld larger areas and parts.

5) Less electrode indentation in spot and seam welding.

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R RELEASE:

Immediate

Date Mailed: 1/27/61

The U. S. Air Force ROTC national advisory board is currently studying advisability of telescoping the traditional four-year AFROTC course into two years, according to Lt. Col. Witold B. Monkiewicz, professor of air science at Illinois Institute of Technology.

Under the proposed plan, college students would enter AFROTC training in their junior year instead of in their freshman year, eliminating the two year basic course in their regular curriculum. Subjects now taught in the basic course would be taken in two summer camps, the first camp period coming between the sophomore and junior year and the second between the junior and senior year.

The reasons for deciding to drop the basic course requirement, according to Monkiewicz, are the high cost of producing an ROTC graduate, the increased study load heaped on science and engineering students which has caused students to shy away from ROTC programs, and the anticipated lack of classroom space in the various colleges and universities.

Air Force officials estimate the new program would save more than $2 million annually.

As a major part of the proposal, the Air Force is shooting for a two year "merit scholarship" of about $1,100 per school year for each selected candidate for commission, to be paid to the individual at the beginning of each school year.

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R RELEASE: Immediate

Date Mailed: 1/27/61

A new graduate course in Astrodynamics will be offered by Illinois Institute of Technology for the first time this coming spring semester.

The course program, designed to meet the needs of students who will be engaged in space technology, is concerned with problems of celestial mechanics and with such satellite problems in which the motion is far enough away from Earth so that gravity forces cannot be taken as a constant, but close enough so that air resistance affects motion.

Astrodynamics will be taught by Dr. Peter Chiarulli (3100 S. Michigan ave.), professor of mechanics and chairman of the department.

-crc-

from
LINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

Public Relations
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

News Supervisor: Jack A. Miller
Office: CAlumet 5-9600, Extension 2384
Home: MOhawk 4-7643
For further information on this release, contact:
C. R. Chu - Ext. 747

R RELEASE: Immediate

Date Mailed: 1/31/61

Three new courses on the fundamentals of fire protection will be offered at Illinois Institute of Technology during the spring semester, it has recently been announced.

The courses are designed to give municipal fire department administrators, industrial fire prevention officers and fire insurance personnel a basic science and engineering background for technical fire protection work.

Industrial fire hazards, electrical fire hazards, and municipal fire protection will be the subjects covered in this continuation of the fire protection study program begun initially during the fall semester. Persons desiring to register for the new courses, however, may do so since previous study in this field is not required.

Registration may be made at the IIT Registrar's office, 3300 S. Federal, until Friday, Feb. 24. Classes will begin Feb. 13, but late registrants will be admitted.

The fire protection program is conducted under the supervision of Gerald L. Maatman, professor and director of the fire protection and safety engineering department at IIT.

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R RELEASE: Immediate

Date Mailed: 1/31/61

The first Chicago showing of a new movie highlighting the 1960 World's Series and an outdoor movie about waterfowl will be featured during Illinois Institute of Technology's 15th annual alumni family sports dinner, Friday, Feb. 3, according to Roy F. Hrubes, program chairman.

Also participating in the program will be speakers William E. Downes, Chicago's commissioner of aviation and former professional football referee who is also a 1926 graduate of Illinois Tech, and Ray Gray, outdoor editor for Chicago's American.

The dinner and entertainment will be held in the IIT Commons building lounge, located on 32nd st. and Wabash ave., beginning at 6:30 p.m. Tickets are $3 per person. Reservations may be made at the alumni office on the Illinois Tech campus.

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OR RELEASE: Immediate

Date Mailed: 1/31/61

Registration for the spring semester at Illinois Institute of Technology, Chicago, will begin Feb. 3.

Undergraduates enrolling in the evening division will register Feb. 6 and 7 from 6 to 8 p.m. in Siegel Hall, 33rd and Dearborn Streets. Evening Division graduate students register Feb. 3 from 6 to 8 p.m.

Day division undergraduate registration will be Feb. 8 from 1 to 4 p.m. and Feb. 9 and 10 from 8:15 to 12 noon.

Graduate students in the day division register Feb. 9 from 1 to 3 p.m.

Deadline for late registration for day division students is Feb. 17; for evening division students, Feb. 24.

All classes begin Feb. 13 and end June 10, 1961.

Further information about Illinois Tech's spring semester may be obtained from the Registrar, Illinois Institute of Technology, 3300 S. Federal, Chicago 16.

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R RELEASE: ON OR AFTER, FRIDAY, Feb. 3, 1961

Date Mailed: 1/31/61

Using porous fiber metal mats, metallurgists at Armour Research Foundation have developed a new brazing process which will enable joints to be made in larger spacings.

The fiber metal mats are prepared by suspending short lengths of metal fibers in glycerin, then felting them to produce a porous body. They can be pressed, rolled, and sintered. The mats are infused with lower melting brazing filler metal, and are placed in the joint to be brazed, which is then heated above the melting point of the filler alloy.

The new process, developed on a project for the Association of American Railroads, is called fiber metal shim brazing. Production of the fiber metal mats is based on the Foundation's development of fiber metallurgy, a technique in which thin fibers of metal are interlocked like a felt cloth and bonded together with heat.

-more-

add 1 -- new brazing process

In addition to making joints in larger spacings, the process offers these advantages:

1) Wide variation in composition and properties, since both the fiber metal mat and the impregnating material can be controlled.

2) Greater mismatching of surfaces can be tolerated.

3) Applicable to refractory metals, such as tungsten and molybdenum, so as to provide joints of much higher remelt temperature than brazing temperature.

4) Ability to increase the filler metal viscosity where excessive fluidity causes difficulty.

5) Greater strength of thick joints because of the reinforcement provided by the fibrous network.

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OR RELEASE: ON OR AFTER, FRIDAY, Feb. 3, 1961

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James Stathas - Ext. 746

R RELEASE: Immediate

Date Mailed: 2/1/61

Six Chicago-area schools have agreed to join in a yet unnamed conference, which will begin with the 1961-62 basketball season, it was announced today by Bernard Weissman, Illinois Institute of Technology athletic director.

Athletic directors and coaches from 11 colleges attended a meeting at Illinois Institute of Technology to discuss the proposed conference which will encompass all inter-collegiate sports.

The schools to play in the new alliance next season are Illinois Institute of Technology, Loras, Lewis, St. Ambrose, University of Illinois-Chicago, and Chicago Teachers College.

Other schools which expressed an interest to become members were Elmhurst, Aurora, Wheaton, St. Procupius, and Concordia.

According to Ed Glancy, Illinois Tech basketball coach and prime mover of the proposed federation, the reasons for bringing into being this association of independent teams are: To minimize traveling to within a 150 mile radius of Chicago; to give players a goal to shoot for, such as a conference championship; and also to stimulate increased interest for a feeling of camaraderie between schools. He also stated that it is becoming increasingly difficult for independent schools to "free lance."

In other sports, such as swimming, track and golf, the coaches agreed to plan on having an annual one or two-day meet in a central location.

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Under proposed conference rules, members will be allowed to schedule independent teams on open dates.

The coaches will again meet in February to further discuss organizational structure and to initiate scheduling.

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RELEASE: Immediate

Date Mailed: 2/1/61

Illinois Institute of Technology is offering its fifth annual summer school in X-Ray Diffraction Analysis this year, June 12-23.

Two one-week sessions provide training in the utilization of x-ray diffraction methods for the identification and characterization of crystallographic properties of commercial materials.

The Powder Method of X-Ray Analysis program, June 12-15, is designed to meet the needs of beginning students. Advanced Methods of X-Ray Analysis, June 19-23, is offered to students who are already familiar with fundamentals of x-ray diffraction.

Each course is comprised of five days of lectures and laboratory, with special emphasis given to practical applications. No prerequisites are required for the non-credit courses. Enrollment is limited to 16 students in each course.

Information concerning tuition fees and on-campus housing may be obtained from Prof. Leonid V. Azaroff, Illinois Institute of Technology, Technology Center, Chicago 16, Ill.

According to Azaroff, early registration is advised since a number of students had to be turned away in previous years.

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R RELEASE:

AM's and PM's
MONDAY, FEBRUARY 6, 1961

Jack A. Miller, Ext. 744

Date Mailed: 2/2/61

The appointment of Dr. Richard Franklin Humphreys as president of The Cooper Union for the Advancement of Science and Art in New York City was announced today by Irving S. Olds, chairman of the Cooper Union trustees. A leading scientist in the nuclear field, Dr. Humphreys is now vice president of Armour Research Foundation of the Illinois Institute of Technology, Chicago.

Dr. Humphreys succeeds Dr. Edwin S. Burdell as head of the 101-year-old Cooper Union, which is the nation's oldest tuition-free private college of engineering, art, and architecture. Dr. Burdell retired in February, 1960, to become president of the Middle East Technical University in Ankara, Turkey, after 22 years as director and president of The Cooper Union.

Dr. Humphreys, who will assume his new position on June 1, 1961, joined Armour in 1949. He has been assistant director and vice president for technical development at the Foundation since 1956. From 1940 to 1949 he was a member of the physics faculty at Yale University.

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As a physicist, Dr. Humphreys has gained a widespread reputation as an expert in the areas of ultracentrifugation of isotopes, cyclotron research, and nuclear reactions. It was largely through his efforts that the Armour Research Foundation was able to enter the nuclear reactor field and to install the world's first reactor for industrial research.

Dr. Humphreys has served as acting director of the Sloane Physics Laboratory at Yale and also as consultant on underwater sound research for industry and the government. He is co-author of a textbook on "First Principles of Atomic Physics," and has published papers in Physical Review, Review of Scientific Instruments, and numerous other scientific journals.

A Rector scholar at DePauw University, Greencastle, Ind., he was awarded a bachelor of arts degree in physics in 1933. He received his master's degree from Syracuse University in 1936 and his doctorate from Yale University in 1939.

Active in civic affairs, Dr. Humphreys is chairman of the radiological defense committee of the Chicago Civil Defense Corps and has served as a member of the isotopes advisory committee to the health commissioner. He is a director and past president of the Physics Club of Chicago.

A native of Greenville, O., he attended high school at Martinsville, Ind., where his mother, Mrs. R. T. Humphreys still resides.

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Dr. Humphreys will arrive at The Cooper Union at a time when that institution is expanding its courses of study and its physical facilities. A new Engineering Building at Fourth Avenue and Eighth Street is now being completed. It is just across the street from the historic Cooper Union building which was opened in 1859 as a free education center by Peter Cooper, noted New York industrialist and inventor.

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RELEASE: Immediate

Date Mailed: 2/2/61

An informal reception to meet Dr. John T. Rettaliata, president of Illinois Institute of Technology, and Clarence A. Herbst, president of the IIT Alumni association, Sunday, Feb. 5, will begin mid-year orientation activities for new students at Illinois Tech.

Approximately 130 students, their families and friends are expected to attend the traditional Presidents' reception, which will be held in IIT's new McCormick lounge, 71 E. 32nd st., beginning at 3 p.m.

The program, sponsored by the IIT Alumni association, will provide an opportunity for the new students and their families to see the campus and to talk informally with faculty and administrative officials.

Orientation activities will continue throughout the week with a variety of scholastic, athletic, fraternity and social functions aimed at introducing the students to college life. A dance for all Illinois Tech students, Friday, Feb. 10, will bring the week to a close.

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Date Mailed: 2/3/61

"The City in Crisis" will be the topic of guest speaker, Dr. Scott Greer, at a meeting of the Illinois Institute of Technology Woman's Club, Wednesday, Feb. 8, in the commons building lounge, on the IIT campus, it was announced by club president, Mrs. Alexander Cowie, 3017 E. 78th st.

Dr. Greer is director of the Center for Metropolitan Studies, and is also an associate professor of political science and sociology at Northwestern University.

The program will begin with a luncheon at 1 p.m. Mrs. Fritz Richter, 9757 S. Hoyne will be luncheon hostess with Mrs. William Bobco, 800 Highland ave., Oak Park, and Mrs. Bernard Weissman, 8607 Euclid ave., as assistants.

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For further information on this release, contact:
C. A. Sengstock, Ext. 745

R RELEASE: After 5:30 pm, Tuesday, Feb. 7, 1961,
am's Wednesday, Feb. 8, 1961

Date Mailed: 2/7/61

CHICAGO -- Freight transported by jet and by hundred mile-an-hour hydrofoil seacraft may cause a major redistribution of production and distribution points in the United States within ten years, a leading figure in the research field said here tonight.

According to Dr. Haldon A. Leedy, director of Armour Research Foundation, the capability to ship large volumes of products, quickly, over long distances at ever decreasing cost will have a strong influence on both the location of new plants as well as the location of new distribution points. Leedy said that the changes in transportation will have a greater effect on commerce than any other development in the decade ahead.

Leedy made his remarks before the Chicago Chapter of the American Institute of Banking Tuesday evening in the first in a series of seven lectures to be held weekly at the AIB's Chicago headquarters, 105 W. Adams. The series will feature administrative and research leaders from Armour Research Foundation and is designed to interpret the changes expected in the banking industry through technical developments in commerce, industry and business.

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In addition to technical and scientific developments in the field of transportation, Leedy called electronics and its application to computers, facsimile devices and microwave transmission the developments that will change the business world. Faster and more effective collection, processing and distribution of business intelligence will be the result of these developments, he said.

In the field of industry, growing use of automation will be the force behind the changes that will take place, Leedy said. As a result, industrial firms will realize better quality products and more efficiency.

All of these changes in business, industry and commerce, by necessity, will affect banking, Leedy said. Loaning patterns will change as more new industries arise and other industries level off or decline, he added. In seeking out desirable company accounts and loan prospects, he said, technological factors will be given more consideration by banks than previously. Such matters as possible product obsolescence and research strength will now become more important in a firm's overall evaluation.

Technology itself will also effect banks directly in their internal operation, Leedy said. Computers and electronic sensing devices, already in use by many banking houses, represent just the beginning of automation. Even decision-making will be aided by complex machines that will evaluate the most minute factors involved in a problem, he said.

These technological developments will call for a major review of the philosophy of banking, Leedy said, and it is likely the banks will become more service oriented.

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Charles Sengstock, Ext. 745

R RELEASE: Immediate

Date Mailed: 2/7/61

Three Armour Research Foundation scientists will deliver papers during the three-day 16th Annual Exhibit and Conference of the Reinforced Plastics Division of the Society of the Plastics Industry at the Edgewater Beach Hotel, Feb. 7, 8, and 9.

A paper jointly written by Isaac M. Daniel (5498 S. University) and Dr. A. J. Durelli (60 Riverside Rd., Riverside, Ill.) entitled "Photoelastic Investigation of Residual Stresses" will be presented by Daniel Thursday, Feb. 9. Joseph S. Islinger (9720 S. Homan Ave., Evergreen Park, Ill.) will also present his paper entitled "Mechanical Aspects of Reinforcement" on Thursday.

Kurt Gutfreund (16 Michael Rd., Park Forest, Ill.) presented a paper called "Interaction at Fibre Glass Surfaces" on Tuesday, Feb. 7, the opening day of the meeting. Over 1200 U.S., Canadian and foreign leaders of the Reinforced Plastics Industry are attending the meeting. Ninety technical papers covering topics from use of plastices in radomes and missile nose cones to their application in pleasure boats and decorative panels in the home will be presented over the three-day period.

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James Stathas - Ext. 746

RELEASE: Immediate

Date Mailed: 2/7/61

To meet the educational demands of the current space age, a number of up-to-date courses have recently been added to the curriculum at Illinois Institute of Technology.

Last semester, a graduate course in Magnetohydrodynamics, taught by Dr. Liang N. Tao (3100 S. Michigan ave.), associate professor of mechanics, was offered for the first time. Magnetohydrodynamics accounts for the flow of electric-conducting fluids under the influence of electric and magnetic forces. This is a new area of technology which includes the study of problems related to the design of nuclear reactors and to the re-entry of space vehicles.

Another graduate course, Astrodynamics, will be offered for the first time this coming spring semester. Taught by Dr. Peter Chiarulli, (3100 S. Michigan ave.), professor of mechanics and chairman of the department, the course is concerned with celestial mechanics and the study of air resistance in regard to satellite motion.

At the undergraduate level, a number of broad fundamental programs have also been established to meet modern needs and to give the senior student a potential for a wide range of specialization, either through future graduate work, on the job training, or self-study. Titles of two basic courses are Advanced Dynamics, offered for the first time this year, and Advanced Fluid Mechanics, which was initiated several years ago.

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R RELEASE: Immediate

Date Mailed: 2/8/61

Paul R. Unger, president of Midwesco, Inc., has been appointed general chairman of the 1961 Illinois Institute of Technology alumni fund, it was announced by Clarence A. Herbst, president of the IIT Alumni association.

Unger will organize and direct the IIT alumni fund drive for the current year. His responsibilities will extend to nation-wide coverage, in addition to the Chicago area.

A 1924 chemical engineering graduate of Illinois Tech, Unger was named president of Midwesco in 1957 when it was known as Midwest Heating Service.

Unger has been active in civic and charitable efforts in Chicago for many years. He served with numerous Community Fund drives and Combined Jewish appeals.

He resides at 7809 Crandon ave., Chicago.

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RELEASE: Immediate

Jack A. Miller, Ext. 744

Date Mailed: 2/10/61

ARMOUR RESEARCH SCHEDULES ORGANIC SEMICONDUCTOR CONFERENCE

CHICAGO -- Major evaluations of the organic semiconductor field -- one that holds great promise for scientific advances in chemistry and electronics -- will be outlined at a two-day conference here, April 18 and 19. The latest results of research in this new technical area will be presented.

Principal speakers will be J. F. Bourland, general manager, Central Research Laboratory, American Cyanamid Company, and W. O. Baker, vice president of research, Bell Telephone Laboratories.

Bourland will present a management appraisal of organic semiconductors, and Baker will discuss the implications of organic semiconductors for industrial use.

The conference, to be held at Chicago's Morrison Hotel, will bring together research and management people from the fields of chemistry and electronics. It will be the first open conference on organic semiconductors to be held in the world, and substantial attendance by scientists from abroad is anticipated. The meeting will be co-sponsored by Armour Research Foundation and Electronics, a McGraw-Hill publication.

Nineteen research papers will be presented, including discussions of molecular crystals, charge transfer complexes, photoconductivity, electrical and thermal transport and organic semiconductor devices.

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Inquiries should be addressed to Dr. James J. Brophy, Armour Research Foundation, 10 W. 35th St., Chicago 16.

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Jack A. Miller, Ext. 744

RELEASE: On or after 5:30 p.m., Tuesday, Feb. 14

CHICAGO -- Research - the lack of it - is a threat to Chicago's growth and leadership in the electrical equipment and metals industries, an Armour Research Foundation scientist declared Tuesday (Feb. 14).

"It has become the principal determinant of a company's destiny," Dr. Nicholas A. Weil told bankers and businessmen during a lecture at the American Institute of Banking.

He warned that in the coming decade Chicago's national command in the fields of primary metals (including the steel industry), fabricated metals, and electrical equipment can only be retained by "a constant search for new ideas, new products, new methods, assisted by a financial community sensitive to these changes."

Weil, a specialist in mechanics and a researcher in production methods and economics, noted that the days when the research department was pushed into a corner, given a chunk of money, and allowed to drift, are gone.

"A company's growth today is determined much more by the offering of new products, than by mergers, acquisitions, or the gradual improvement of old products. If management gives up the leadership over research, it has given up on guiding the company," he said.

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Reviewing the steel industry, Weil commended it for constantly improving its production techniques, but expressed concern over its lack of attention toward developing new products and penetrating new markets.

Weil's prescription for maintaining the long-range health of the electrical equipment and metals industries includes:

1) More research, especially in regard to newly sprouting technological fields. "On a national basis, the representation of research activities conducted in the Chicago area is insufficient."

2) Management, and particularly capital management, will have to discard its old yardstick of one to three year payout, and will have to concentrate on aspects previously regarded as fringe considerations only.

3) Greater attention will have to be paid to merger possibilities to lure technically strong, but financially weak firms into the area.

He explained that although 70 per cent of all research never sees the light of day in the form of a product or a saleable idea, it is also true that the other 30 per cent spent on research and development has made America what it is today.

He said the amount spent for research should be no less than that spent for advertising, and it should not be under two per cent of the sales dollar of the company.

Weil, director of mechanics research at Armour Research Foundation, is one of seven research and administrative leaders scheduled to speak at the American Institute of Banking's weekly

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lecture series, "You Can Bank On It." Speaker on February 21 will be George Philips, assistant director of ARF's techno-economics research, who will discuss "The Outlook for Five Growing Service Industries."

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C. R. Chu - Ext. 747

RELEASE: After 12 Noon,
Wednesday, Feb. 15

Date Mailed: 2/14/61

John T. Rettaliata, president of Illinois Institute of Technology, has been named by the Chicago chapter of the Illinois Society of Professional Engineers as the "Outstanding Engineer of 1960" in the Chicago area, it was revealed today at a special ceremony held in Mayor Richard J. Daley's office.

Coincidental with this announcement, the mayor proclaimed Feb. 19-25 as "Engineers Week in Chicago."

The engineering society cited, as one of the reasons for Rettaliata's selection for this honor, his leadership in the development of IIT as one of the major institutes of technology of the nation. This past year saw the virtual completion of the Institute's land acquisition program, which involved more than 1260 parcels of land culminating 20 years of effort in this direction, and the addition of notable members to an expanded faculty staff.

Additionally, Rettaliata was cited for his acceptance of many continuing civic responsibilities, such as his service on the Mayor's committee to nominate members for the Chicago School Board, his membership on the Chicago Planning Board, and his service as an advisory council member for the Junior Achievement of Chicago, in addition to others.

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The society, in naming Rettaliata, further noted his contribution to the growing extensiveness of industrial research in Chicago, specifically citing expansions in facilities and volume of work at the Armour Research Foundation of Illinois Institute of Technology, and his membership in the National Aeronautics and Space Council during the past year.

Formal presentation of the award to Rettaliata in recognition of his selection as "Engineer of the Year" will be made during the Chicago Engineers Week Banquet, to be held at McCormick Place, Thursday, Feb. 23.

The main speaker at the banquet, to be attended by an expected 1200 guests, will be Charles L. Barker, chief deputy to Dr. Werner von Braun, head of the U. S. missile program. His topic will be "A Man in Space."

"Engineers Week in Chicago" will be held to recognize the city's professional engineers and is sponsored by the Chicago chapter of the Illinois Society of Professional Engineers in association with the American Society of Civil Engineers, the American Society of Mechanical Engineers, the American Institute of Electrical Engineers, the American Institute of Chemical Engineers and the Society of American Military Engineers.

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Public Relations
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Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

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RELEASE: Immediate

Date Mailed: 2/14/61

The appointment of Dr. Sidney W. Kash as supervisor of the plasma and electron section in physics research has been announced by Dr. Leonard Reiffel, director of the division at Armour Research Foundation.

For the past five years Kash has served as manager of the plasma physics department at Lockheed Missiles and Space Division, Palo Alto, Calif. Previously he had been associated with Atomics International in Los Angeles.

His more recent research and scientific interests include plasma and ion propulsion, magnetohydrodynamics, and shock phenomena, and he has written many technical papers in these areas. He has also been concerned with nuclear reactors and neutron transport phenomena.

Kash received his doctorate in physics at UCLA, where he was elected to Phi Beta Kappa, Sigma Xi, and Pi Mu Epsilon, mathematics honorary. He is a member of the American Physical Society and American Rocket Society. He and his family will reside in the Chicago area.

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RELEASE: Immediate

Date Mailed: 2/15/61

Average total dustfall for Chicago during the month of January was 43.9 tons per square mile. This was 0.5 tons above the dustfall reading for December 1960 but 20 per cent lower (9.2 tons) than the January 1960 report, according to research engineer, Samuel Radner, Armour Research Foundation.

One interesting observation, said Radner, was that the loop readings amounted to only 77 per cent of those in January 1960.

There was only 0.26 inches of precipitation in January including 6.3 inches of snow, according to Radner, compared with 3.73 inches of precipitation in January 1960. Radner said the heat demand for this January, on a degree-day basis, was five per cent above that for December and 13 per cent above the demand for January of 1960.

Highest dustfall readings occurred at 3532 N. Sheffield (99.6 tons) and in the loop at State and Adams (99 tons). Lowest readings were noted at 1620 W. 99th St. (16.0 tons) and 7350 W. Pratt (17.6 tons).

Here are the dustfall readings for January of 1961 and January and December of 1960 as recorded at the 24 collecting stations in the city.

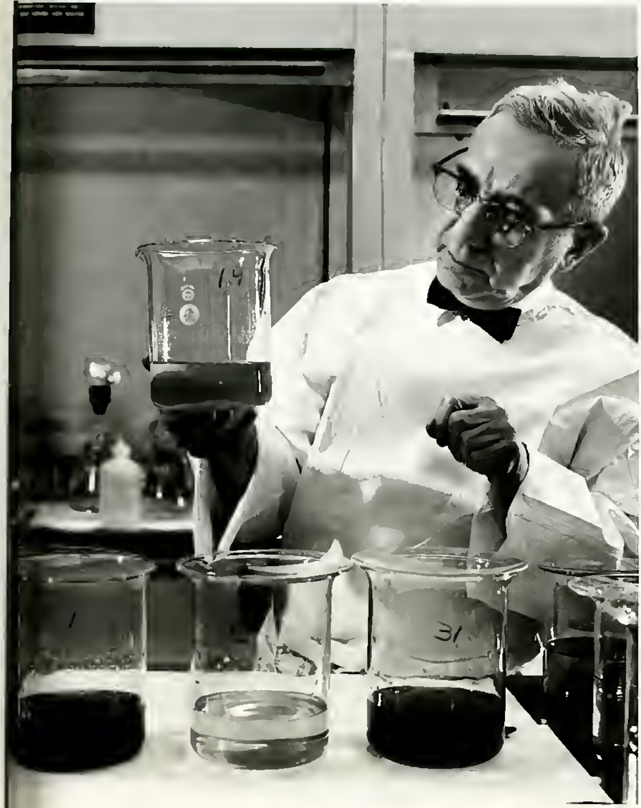
-more-

Dustfall, January 1961 -- add 1

CHICAGO TOTAL DUSTFALL
Trends by Station
January, 1961

Ward No.	Station Address	Readings in tons per square mile Jan. 1961	Dec. 1960	Jan. 1960
1	State and Adams	99.0	96.1	145.0
1	33 N. LaSalle	88.3	93.5	103.2
	Loop Average	93.7	94.8	124.1
1	2135 S. Michigan	63.1	66.7	73.4
4	825 E. 44th	37.1	36.3	62.2
5	1362 E. 59th	34.5	37.1	42.6
7	7531 Stony Island	54.5	62.9	56.2
9	67 W. 113th Pl.	27.1	36.3	38.6
10	8858 Marquette	39.4	44.2	48.3
13	3105 W. 63rd	30.5	44.3	45.4
13	6140 S. Melvina	32.1	49.0	49.1
17	7559 Eggleston	27.0	24.9	31.0
19	1620 W. 99th	16.0	16.7	26.9
22	3608 Ogden	29.4	30.3	72.1
26	1500 W. Monroe	56.9	49.9	61.9
30	5055 Fulton	33.9	34.6	43.0
32	2940 W. Cortland	43.9	36.3	43.3
36	5602 Belden	27.4	19.3	34.5
40	3944 N. Sawyer	51.9	46.0	34.9
41	7350 Pratt	17.6	16.8	13.0
42	54 W. Hubbard	66.4	65.8	57.5
44	551 Grant Pl.	54.9	51.1	44.6
46	3532 Sheffield	99.6	68.0	127.5
49	1622 Pratt Blvd.	30.7	25.7	27.2
12	2240 W. 37th	41.8	40.3	63.8
	Average (Including Loop)	43.9	43.4	53.1

from



Research engineer Samuel Radner, Armour Research Foundation examines contents from one of the 24 dustfall collecting stations in Chicago. Each month, ARF reports the average total dustfall for the city of Chicago as a public service. Radner is holding the dustfall sample from the station located at 7350 W. Pratt which had one of the lowest readings (17.6 tons per square mile) for January 1961.

For comparison, Radner has in front of him (from left to right) the January sample from the State and Adams dustfall station(99.0 Tons), a control sample from a western suburb (note color), and a sample from a station located near Armour Research Foundation at 35th and State sts.

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R RELEASE: Immediate

Date Mailed: 2/15/61

CHICAGO -- Thirty persons representing government agencies and most of the large firms in the propellant industry, attended The Air Force Contractors' Symposium on Hypofluorite Chemistry at Armour Research Foundation Feb. 14 and 15.

Sponsored by the Air Force Flight Test Center, Air Research and Development Command, Edwards Air Force Base, California, and hosted by ARF, the two-day classified meeting concerned new areas of hypofluorite chemistry and their applications to higher energy oxydizers for rockets and missiles, according to Dr. Morton Klein, supervisor of propellant research at ARF and host for the meeting.

Hypofluorite chemistry, said Klein, is a field upon which the U.S. Air Force places a good deal of emphasis in this day of rocket and missile technology.

Fifteen firms were represented at the meeting which is the first of its kind.

-jam-

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RELEASE: Immediate

Date Mailed: 2/17/61

A new material for use in high temperature, high pressure static seals has been developed by Armour Research Foundation. The new material is a composite of two metals whose combined properties meet the requirements for seal applications in temperatures up to 1200°F and pressures of 5000 psi.

The composites, developed for Materials Central, Wright Air Development Division, U.S. Air Force, are made by impregnating a porous body of fiber metal (or skeleton) with a soft metal. The resiliency of the fiber metal skeleton combines with the softness and conformability of the impregnant to offer a seal material for most any static high temperature-high pressure purpose. In addition, the metals are corrosion resistant for use with chemicals, exotic fuels or hydraulic fluids.

The fiber metal skeletons, usually of molybdenum or stainless steel, are made by felting metal fibers, compressing them and then sintering to form a bond between the fibers at each point of contact.

-more-

The skeletons can be made as dense as desired and, therefore, tailored to meet different seal needs. They can be machined to desired shapes and configurations by temporarily impregnating them with salt.

Generally speaking, the higher the melting temperature of the metal filler, the higher the temperature a seal will withstand. When the fiber metal skeleton is impregnated with the filler, the material literally becomes a sponge within a sponge. Since both metal networks are continuous, this sponge within a sponge idea offers an optimum situation for realizing the combined properties of each.

Experimentation has shown that a composite made of a molybdenum fiber skeleton and impregnated with silver retained hot air pulsating pressures from zero to 5000 psi at 1200°F. In other evaluations, the same composite material was subjected to temperatures cycled from about 72°F to 1000°F with the same pulsating gas pressures from zero to 5000 psi applied at both temperature extremes. After three such temperature cycles, no trace of leakage and no loss of bolt torque was detected.

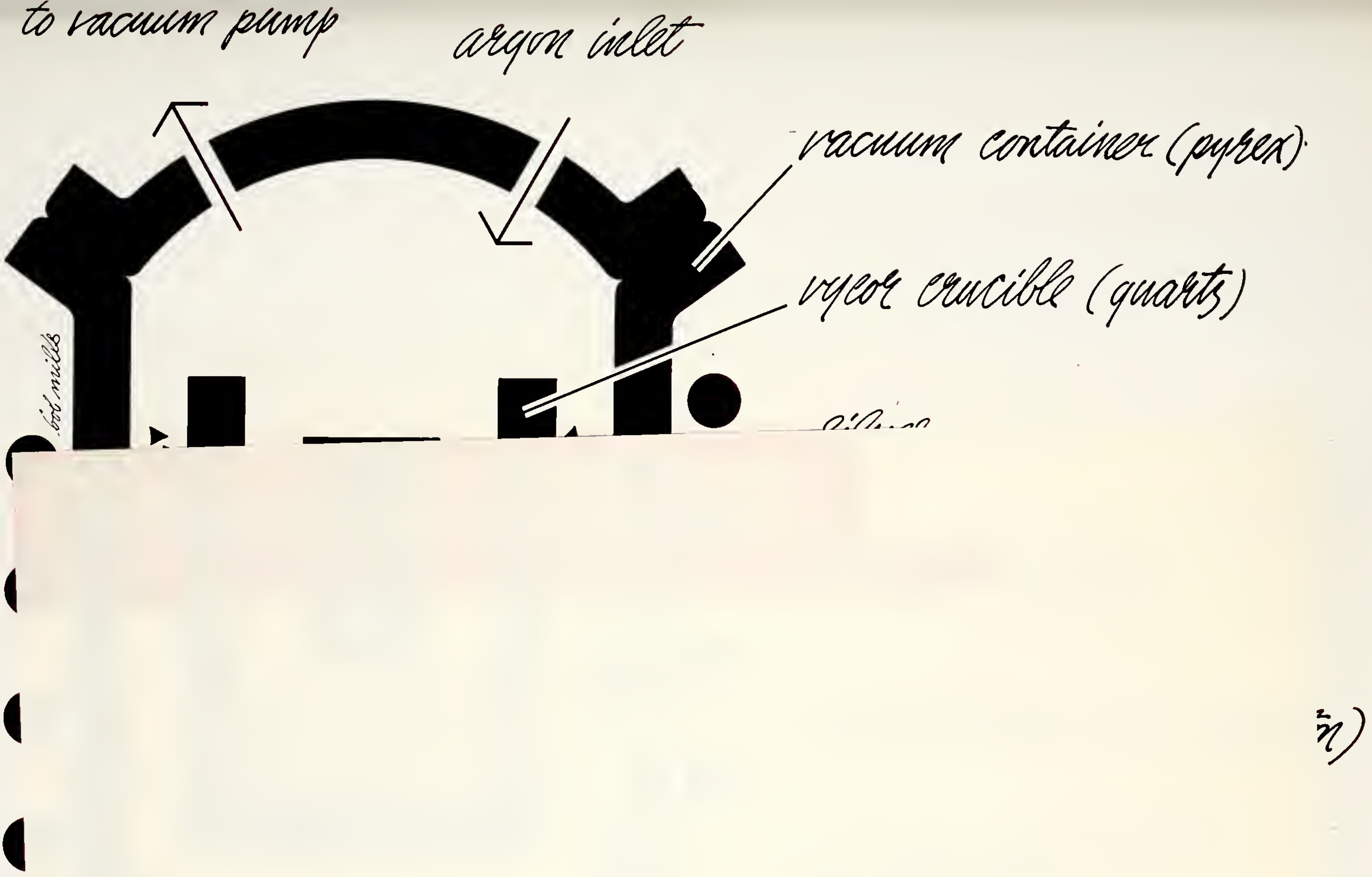
Tests performed by Republic Aviation indicate excellent static sealing results with the molybdenum-silver composite. Hydraulic fluids were retained for a total of 93 hours in the tests and 336,984 impulse cycles at 1000°F without signs of leakage. This included repeated assembly and disassembly and 12 thermal cycles.

-more-

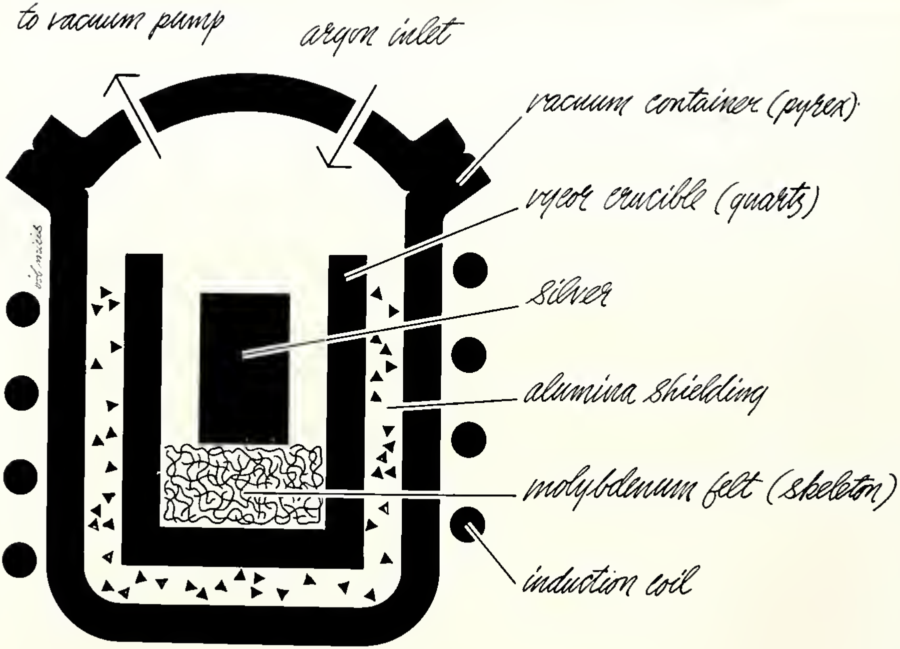
add 2 -- High Temperature Seals

Use of a composite material in dynamic seal applications is in the experimental phase. Polymeric materials are being used as impregnants for the fiber metal skeletons with good results noted in the preliminary stages.

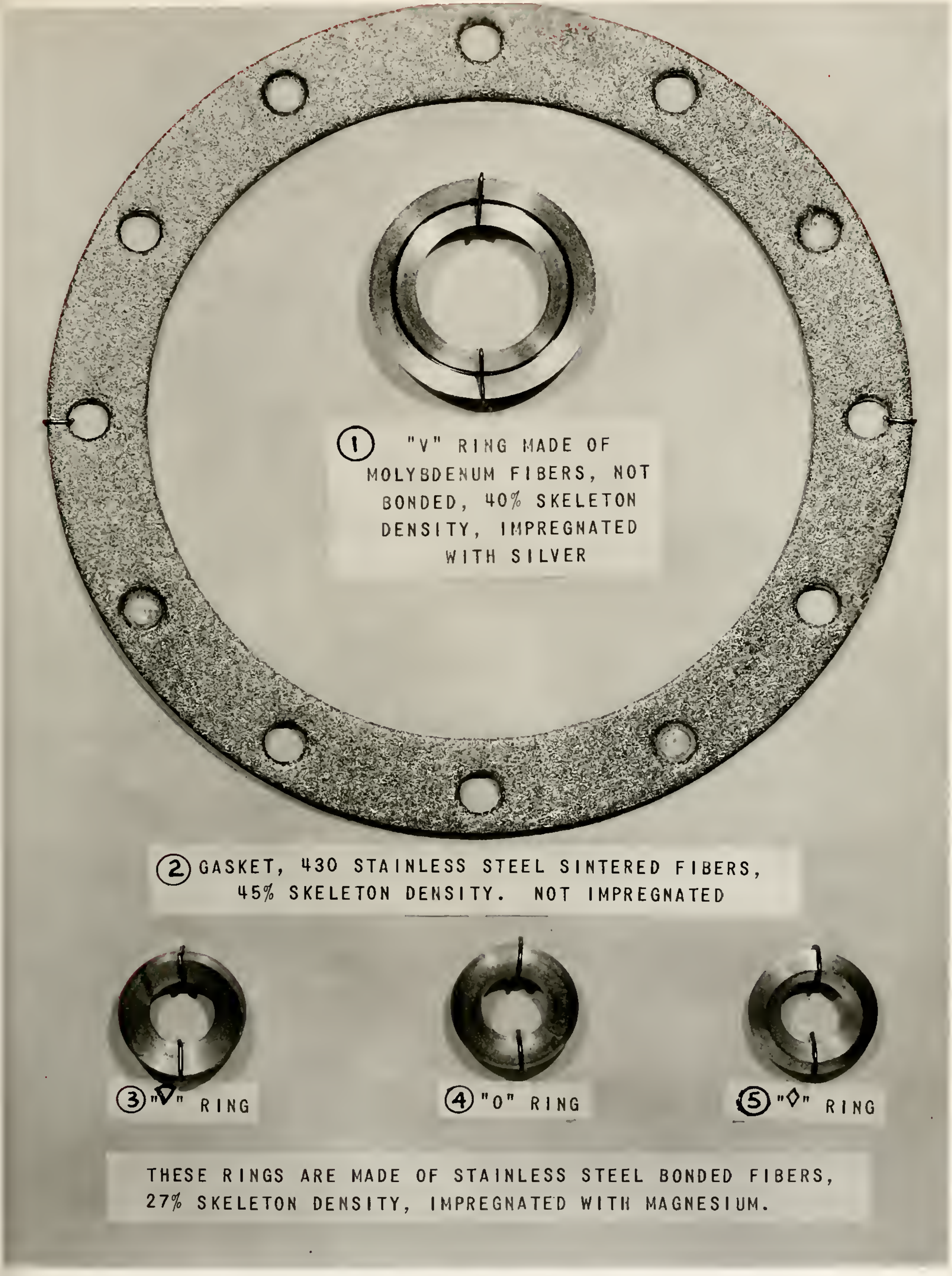
-jam-


to vacuum pump
argon inlet
vacuum container (pyrex)
vycor crucible (quartz)
bob mills

-more-



This is a schematic showing how a molybdenum fiber metal skeleton is impregnated with silver to form a composite material used for high temperature-high pressure sealing. Both elements are placed in a pyrex container and closed tightly. The air is evacuated from the container and the temperature is raised to 2000°F. When the silver is molten, argon is admitted to the container and the liquid metal is forced into the skeleton pores.



① "V" RING MADE OF MOLYBDENUM FIBERS, NOT BONDED, 40% SKELETON DENSITY, IMPREGNATED WITH SILVER

② GASKET, 430 STAINLESS STEEL SINTERED FIBERS, 45% SKELETON DENSITY. NOT IMPREGNATED

③ "▽" RING

④ "O" RING

⑤ "◇" RING

THESE RINGS ARE MADE OF STAINLESS STEEL BONDED FIBERS, 27% SKELETON DENSITY, IMPREGNATED WITH MAGNESIUM.

is optimistic that each one will surge ahead in the coming decade.

-more-

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)R RELEASE: On or After 5:30 p.m.,
Tuesday, February 21, 1961

CHICAGO -- Service industries, which now employ more people than manufacturing enterprises, may prove to be the economic trigger of the 1960's, a business and industrial consultant said Tuesday (Feb. 21).

George Philips, assistant director of techno-economics research at Armour Research Foundation, describes the shift of the nation's economy from manufacturing to service industries as "a silent revolution."

He told bankers and businessmen in an address at the American Institute of Banking that "this increased need for services may be an offsetting factor for the displacement of personnel due to automation in manufacturing."

One reason for the transformation, said Philips, is that pent-up consumer demands for products have come close to being satisfied since World War II. For example, he cited that in the closing quarter of 1960, consumer spending for manufactured items dropped $2½ billion, while expenditures for service increased $2 billion.

He reported that 33 million people are now employed in service industries compared with 27 million in manufacturing.

Reviewing the outlook for five service industries: research, transportation, leasing, contract maintenance and personal, Philips is optimistic that each one will surge ahead in the coming decade.

-more-

His trends for the future included:

1) Research - "It is not only significant that there is more research," said Philips, "but that there is a greater degree of wisdom in the management control of research."

2) Transportation - Jet travel and air freight will become more important and may tend to reverse the trend of industry from plant de-centralization to centralization. "Because Chicago lies in the geographical center of the U.S., this is a potential growth factor for the city."

3) Capital leasing has increased from $450 million in 1953 to $1.5 billion in 1958. "With the growing re-allocation of corporate funds toward research and marketing, there will be a greater need for long-term financing of capital equipment and plants."

4) Contract maintenance, although an infant industry today, will climb because it goes hand-in-hand with capital leasing. Also productive equipment is becoming more complex and "banks" of outside experts may be needed to service such equipment.

5) Personal services (doctors, dentists, lawyers, pilots, etc.) will continue to move ahead at a meteoric rate...because of the rapid expansion of the U.S. population, an uptrend in family incomes (average income for a family unit may be $10,000 by 1970), and a surfeit in the hunger for material items.

Philips gave the third in a series of seven lectures, "You Can Bank On It," which are sponsored weekly at the American Institute of Banking by Armour Research Foundation. Speaker on Feb. 28 will be Irving D. Canton, assistant director of international research division at ARF.

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RELEASE: Immediate

Date Mailed: 2/22/61

CHICAGO -- Dr. John T. Rettaliata, president of Illinois Institute of Technology, today recommended that an authoritative planning study be made before relocating the Food and Container Institute (now in Chicago).

Specifically, he suggested that the Department of Defense, the Department of the Army, or the Quartermaster Corps should request a study by the National Academy of Sciences - National Research Council. "The study should include recommendations on programs, facilities and site for the Institute," he said.

The Defense Department is seeking a congressional appropriation to move the facility from its present location at the Chicago Administration Center to Natick, Mass. Deactivation of the Center and the proposed move of the Food and Container Institute were announced last year.

The Food and Container Institute is a scientific and engineering research establishment interested in the development of food products and containers used by the Armed Forces.

Rettaliata also recommended that:

a) The basis for the location of new facilities should be the best environment for scientific and engineering research. On this basis, Chicago is the logical site for the Institute, he said.

-more-

b) Specific requirements for space for the Institute should be developed by the professional staff of the Institute, with the guidance of specialists from the National Academy of Sciences.

c) The specific requirements should be made available to Illinois Tech and other qualified organizations in the Chicago Area interested in providing space.

Rettaliata's recommendations are based on a comprehensive study made by Illinois Tech's research affiliate, Armour Research Foundation. He said the food and container industries strongly favor a Chicago location.

He also noted that "a delay for planning purposes is preferable to possible major setbacks in the program" of the Food and Container Institute.

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C. R. Chu - Ext. 747

RELEASE: Immediate

Date Mailed: 2/23/61

A special summer session course designed primarily to serve members of the oil hydraulics industry will be offered at Illinois Institute of Technology this year from June 12 to 23.

Entitled "Basic Oil Hydraulics," the course content will cover fundamentals of the basic components used in hydraulic circuits. In addition, guest speakers from industry will lecture on circuits and related items.

Classes will be held six hours a day, five days per week, over the two week period. A high school education or its equivalent is prerequisite for taking this special course.

Offered under the sponsorship of the National Conference on Industrial Hydraulics, the course will be conducted by Dennis W. Prosser, IIT instructor in mechanics.

Further information may be obtained from Prosser, Illinois Institute of Technology, 3300 S. Federal, Chicago 16, Ill.

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James Stathas - Ext. 746

RELEASE: Immediate

Date Mailed: 3/1/61

William R. Dunbar has been appointed manager of Illinois Institute of Technology's new $2,900,000 student union, Grover M. Hermann Hall, effective March 1. The building, now under construction, is scheduled to be completed in September.

In addition to management of the union, his responsibilities will include the coordination of all institute conferences.

Since 1957 Dunbar had been director of the new student union at William Jewell College, Liberty, Mo., and was in charge of student activities there.

Dunbar received his bachelor's degree from William Jewell, and also did post-graduate study in the college union field at the University of Illinois.

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RELEASE: Immediate

Date Mailed: 3/2/61

Stanley I. Cohn, assistant director of electronics research, Armour Research Foundation of Illinois Institute of Technology, has been appointed chairman of the Radio Frequency Interference Committee of the Institute of Radio Engineers.

Cohn received notice of his appointment in a letter from IRE president Lloyd V. Berkner. His appointment will run from May 1, 1961 until April 30, 1962.

The Institute of Radio Engineers is a professional society which disseminates pertinent technical information in the areas of radio and electronics to members in the field.

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C. A. Sengstock, Ext. 745

Date Mailed: 3/2/61

Marvel W. Scheldorf has been appointed senior engineer in electronics research at Armour Research Foundation of Illinois Institute of Technology.

His appointment was announced by Virgil H. Disney, director of electronics research.

Scheldorf joined the Foundation in 1959 as a research engineer and has over 35 years of experience in the electronics industry. In addition to being author of over 20 technical papers, Scheldorf holds 30 patents in the electronics field.

He received his bachelor's degree at Iowa State College and is a fellow in the Institute of Radio Engineers and the American Association for the Advancement of Science.

Scheldorf's fields of research include transmitters, audio circuits, loudspeakers, laboratory standards, optical measurements and antennas. Scheldorf and his wife live at 5218 Howard av. in Western Springs, Ill.

-jam-

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James Stathas - Ext. 746

RELEASE: Immediate

Date Mailed: 3/2/61

Mrs. Jeanne Krogman (916 Brae Mar, Flossmoor), book reviewer and dramatist, will present a dramatic program at the Wednesday, March 8 meeting of the Illinois Institute of Technology Woman's club. The announcement was made by the club president, Mrs. Alexander Cowie (3017 E. 78th st.).

Mrs. Krogman's dramatic sketch will depict a history of bridal customs and dress, and will entail six costume changes. Mrs. Frederick King (2218 Colfax st., Evanston), an IIT club member, will also take part in the program, providing wedding songs and love ballads.

Wife of the administrative vice president of the University of Chicago, Weston Krogman, Mrs. Krogman is active in civic and club work, and has been president and secretary of the University of Chicago Service League. She attended the Chicago Academy of Fine Arts and the University of Chicago.

The day's program will begin with a salad luncheon at 1 p.m.

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James Stathas - Ext. 746

RELEASE: Immediate

Date Mailed: 3/2/61

Folksinger Bob Gibson will present a concert in the Illinois Institute of Technology student union, 47 W. 33rd st., Saturday, March 11, at 8:30 p.m.

Gibson, who has performed in Chicago, New York, and Miami night clubs, is an Arthur Godfrey Talent Scouts program winner. He also presented a concert in New York City's Carnegie Hall.

Admission to the concert is $1.50, and is open to the public.

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RELEASE: Immediate

Date Mailed: 3/3/61

Four electronic research engineers from Armour Research Foundation of Illinois Institute of Technology will present technical papers at the International convention of the Institute of Radio Engineers March 20-23, in New York.

A paper entitled "Shielding Enclosure Performance Utilizing New Techniques" will be given by Richard B. Schulz (7259 Greenleaf av., Niles, Ill.), research engineer, and D. P. Kannellakos, former ARF engineer now living in California.

ARF senior engineer Marvin Camras (560 Lincoln av., Glencoe, Ill.) will present a paper titled "Magnetic Recording of Short Wavelengths."

The third paper, "Inherent Errors in Locating Electrical Storms with a Surveillance Satellite," will be presented by Russell A. Whiteman, ARF research engineer (330 W. Diversey) and David Fryberger, research engineer (1368 E. 57th st.).

The Institute of Radio Engineers is a professional society of radio and electronic engineers. The three-day New York meeting will be held at the Waldorf-Astoria Hotel and the Coliseum.

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C. R. Chu, Ext. 747

RELEASE: Immediate

Date Mailed: 3/9/61

Three annual scholarships drawn from a $150,000 memorial cholarship fund are being offered at Illinois Institute of chnology, in accordance with a bequest by the late John B. zazian of Chicago.

Bezazian, a retired rug merchant and investor, died ne 26, 1959.

According to the terms of the bequest, each scholarship nner may be awarded up to $1,000 a year for four years. cipients are selected by the Illinois Tech scholarship committee. plicants of Armenian extraction, and students from the Chicago ea whose qualifications equal those of other applicants, are ven preference.

Three scholarships were awarded for the 1960-61 academic ar. An equal number will be offered each succeeding year. The holarships are to be awarded over a 15-year period to full time le students at Illinois Tech who are in major areas of study lated to national defense or space exploration. This includes e general field of engineering and the sciences of chemistry, thematics, physics, and biology.

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An entering freshman may receive the scholarship for eight semesters, with yearly renewals based on satisfactory academic progress.

Inquiries concerning the scholarships should be forwarded to the Director of Admissions at Illinois Institute of Technology. Applications for September scholarships must be received in the Admissions office by Feb. 1.

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OR RELEASE: Immediate

Date Mailed: 3/9/61

A total of 6,667 students are enrolled at Illinois Institute of Technology for the spring semester of the current academic year, according to a report issued by Frederick R. Eckford, IIT registrar.

The undergraduate enrollment accounted for 5,589 of the total. Of these, 1,884 registered as full time day students, while 3,705 will attend evening classes.

There are 1,078 enrolled in the graduate division. Day courses attracted 250 of these, with 828 registering for night courses.

Although Illinois Tech, like most leading engineering and science schools, is predominantly a men's college, there were 224 women graduate and undergraduate registrations, according to Eckford's report.

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Jim Stathas, Ext. 746

OR RELEASE: Immediate

Date Mailed: 3/9/61

Guard John Bagley has been selected "most valuable player" for the past season by his teammates on the Illinois Institute of Technology basketball team. He was also selected as captain for next year's squad.

Bagley, a junior in electrical engineering at IIT, was the nucleus of the Techawk squad because of his playmaking ability, according to coach Ed Glancy. Glancy also stated that the team selected the 6' 2" guard because of his assists in scoring plays, which were more valuable than his personal scoring, totaling 288 points for a 13.1 game average.

During the season, Bagley was also named to the All Star team in the Rochester Institute of Technology holiday tournament, December 28-30, which was won by Illinois Tech.

Another tourney All Star, forward John Olin, 6' 4", ended his college career with a total of 1290 points, recording a 19.3 game average over four years.

The Illinois Techawks wound up the season Saturday, Feb. 25, by winning over Concordia College (Springfield), 76-59, recording a 15-7 record for 1960-61.

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from
LINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

Public Relations
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

News Supervisor: Jack A. Miller
Office: CAlumet 5-9600, Extension 2384
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R RELEASE:
Immediate

Date Mailed: 3/14/61

Average total dustfall for the Chicago area during February was 55.5 tons per square mile, according to preliminary figures, said research engineer Samuel Radner of Armour Research Foundation of Illinois Institute of Technology.

Although the average February reading was 26 per cent more than the January reading of 43.9 tons, there was only a difference of one-tenth of one ton between the readings of February 1960 and last month, Radner said.

February of this year was a mild, dry month, Radner said, and the heat demand was only 66 per cent of that in January 1961 and 75 per cent of that for February of 1960. Only 0.90 inch of precipitation was recorded last month, compared with 3.16 inches in February, 1960.

Highest readings in February were a 33 N. LaSalle (131.3 tons), and at 3532 N. Sheffield (83.2 tons). The two lowest readings in the city were recorded at 7350 Pratt Ave. (22.3 tons) and 1620 W. 99th St. (33.5 tons).

Here are the dustfall readings for January and February of this year and for February 1960 as recorded at the 24 collecting stations in the city.

-more-

Dustfall, February 1961 -- add 1

CHICAGO TOTAL DUSTFALL
Trends by Station
February, 1961

Ward No.	Station Address	Feb. 1961	Jan. 1961	Feb. 1960
		Readings in tons per square mile		
1	State and Adams	73.9	99.0	134.9
1	33 N. LaSalle	131.3	88.3	90.1
	Loop Average	102.6	93.7	112.5
1	2135 S. Michigan	71.2	63.1	79.1
4	825 E. 44th	58.3	37.1	53.7
5	1362 E. 59th	49.0	34.5	59.1
7	7531 Stony Island	78.3	54.5	123.1
9	67 W. 113th Pl.	47.4	27.1	51.9
10	8858 Marquette	62.5	39.4	78.6
13	3105 W. 63rd	69.7	30.5	49.4
13	6140 S. Melvina	41.0	32.1	47.0
17	7559 Eggleston	46.4	27.0	35.1
19	1620 W. 99th	33.5	16.0	28.1
22	3608 Ogden	45.8	29.4	58.7
26	1500 W. Monroe	58.9	56.9	58.5
30	5055 Fulton	48.3	33.9	19.9
32	2940 W. Cortland	60.1	43.9	42.8
36	5602 Belden	40.2	27.4	40.0
40	3944 N. Sawyer	73.7	51.9	44.8
41	7350 Pratt	22.3	17.6	39.5
42	54 W. Hubbard	82.6	66.4	66.9
44	551 Grant Pl.	51.4	54.9	43.5
46	3532 Sheffield	83.2	99.6	49.5
49	1622 Pratt Blvd.	45.7	30.7	37.3
12	2240 W. 37th	50.6	41.8	55.3
	Average (including Loop)	55.5	43.9	55.4

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March 14, 1961

CHICAGO -- Americans are not as carefree in their spending as they might pretend to their neighbors and friends, according to John K. Diederichs, a Chicago economics researcher.

"They begin to show conscious concern about money, on the average, when an item costs more than $1.25," he said. "In 1933 this concern point was five cents."

Diederichs, director of techno-economics research at Armour Research Foundation, calls this point "the impulse level of buying," a new yardstick that was determined in a research study at the Foundation.

In an address Tuesday (March 14) before businessmen and bankers at the American Institute of Banking, he explained that the impulse level can be tallied with income, so that in Lake Forest, for example, it might be 50 times higher than the average. His impulse level is related to the average U.S. family income of $5,600.

In addition, he said the urge to consider credit buying is roughly 100 times the cash impulse level, or about $125. "At present, credit buying appears to be slightly declining in relation to the national economy," he reported, "because new credit is being created at the same rate that old credit is being paid back." He attributes this decline to "a more cautious buying public."

-more-

add 1 -- Diederichs AIB talk

What does the consumer spend his dollar for?

Diederichs listed the following:

Automobiles and repair parts, 5.2 cents; personal services, 1.6 cents; gasoline and oil, 3.3 cents; food and beverages, 22.8 cents; furniture and household equipment, 5.3 cents; transportation, 2.9 cents; household operations, 5.4 cents; savings, 7.4 cents; housing, 12.0 cents; clothing and shoes, 8.0 cents; recreation, 1.7 cents. Those on the increase include automobile expenditures, personal services (doctors, dentists, barbers) and, remarkably, savings.

Diederichs gave the sixth in a series of seven lectures, "You Can Bank On It," which are sponsored weekly at the American Institute of Banking by Armour Research Foundation. Speaker on March 21 will be Virgil Disney, director of electronics research at ARF.

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RELEASE:

Immediate

Date Mailed: 3/15/61

Illinois Institute of Technology has been awarded a $17,650 grant from the National Science Foundation for the support of a mathematics institute for high school seniors of high ability, it was announced by Dr. John T. Rettaliata, IIT president.

According to the institute's director, Dr. Haim Reingold (7541 S. Clyde Ave.), chairman of the IIT department of mathematics, the program will consist of lectures and discussions pertaining to some of the more important and interesting topics of contemporary mathematics.

The program, which will begin its third consecutive year at Illinois Tech in September, is the only one of its kind in Illinois, and was the first such program in the country when it was initiated in 1959. Its purpose is to supplement the mathematical background of talented high school students interested in mathematics.

Eligibility for enrollment is open to any Chicago area high school senior living within commuting distance of IIT's near south side campus. Tuition expenses are paid by the NSF grant. Students will be reimbursed for transportation and lunch.

The 1961-62 mathematics institute will meet on Saturdays during the regular school year beginning in September.

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R RELEASE: Immediate

Date Mailed: 3/15/61

Dr. Alexander E. Vajda, 41, has joined Armour Research Foundation of Illinois Institute of Technology as group leader of polymer research in ARF's chemistry research division.

Prior to joining the ARF staff, Vajda was a chemist with the Hooker Chemical Corp. in Niagara Falls, N.Y. He is a specialist in the field of resins and polyurethane foams.

Born in Hungary and educated at the Swiss Federal Institute of Technology in Zurich, Dr. Vajda worked in Switzerland and in Canada as a chemist and in research management.

Vajda lives at 3101 S. Wabash.

-jam-

Prepared for: American Society for Microbiology

By: Armour Research Foundation

C. Sengstock, Ext. 745

March 15, 1961

Two microbiologists from Armour Research Foundation will present a technical paper entitled "Use of Ozone in Preparation of Typhoid Vaccine" before the 61st annual meeting of the American Society for Microbiology April 23 to 28, at the Morrison Hotel in Chicago.

The paper, presented by Sol Miller, ARF research bacteriologist, and Dr. Richard Ehrlich, assistant director of Life sciences research, concerns the preparation of typhoid vaccine using ozone.

In general, vaccines are prepared by one of several methods such as application of heat, chemicals (e.g. formaldehyde), ultra-violet radiation, ionizing radiation, and ultrasonic vibration. These methods often are undesirable because they result in denaturization, inadequate inactivation of the virulence, low antigenicity decomposition on storage, and undesirable secondary effects.

When prepared with ozone, in general, sterility was obtained after 60 to 120 minutes. The typhoid vaccines behaved very similarly to the NIH (National Institute of Health) standard, the potency of the vaccines was not affected by storage for 12 months at 4°C, and could be used for safe vaccination.

-more-

add 1 -- typhoid vaccine

In preparation, the ozone is introduced into specially designed contacting columns containing the raw vaccine material. Samples of the vaccine are removed at intervals to determine sterility.

Although the experimental program conducted at ARF on using ozone in preparing vaccines was designed primarily to develop a typhoid vaccine, limited exploratory studies have been made on influenza and adenovirus vaccines.

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James Stathas
CA 5-9600, Ext. 746
Date: 3/17/61

R RELEASE:
Immediate

Dr. Norman F. Ramsey, professor of physics at Harvard University, Cambridge, Mass., will be guest speaker at a meeting of the Illinois Institute of Technology chapter of the Society of the Sigma Xi, Friday, March 24, at 8 p.m., in IIT's chemistry building auditorium.

Ramsey, national Sigma Xi lecturer, will speak on "Nuclear Interactions in Molecules." He will report on recent studies dealing with interactions of particles within the atomic nucleus, which are being observed with a molecular beam apparatus. This apparatus, equipped with an electron beam detector, can detect almost any molecule, including molecules of non-condensable gases for which an electron bombardment detector is ordinarily not suitable. He will describe the physical significance of the results of the detector tests and their relationship to other molecular phenomena.

Before joining Harvard in 1947, Ramsey helped to establish the now famous Brookhaven Laboratory for nuclear research, and served as the first chairman of its physics department. He was an expert consultant to the U. S. Secretary of War in World War II, and was sent to Los Alamos to direct one of the principal groups developing atomic energy. For his wartime work Ramsey received the Presidential Order of Merit.

- more -

At Harvard University, Ramsey developed a new method of studying beams of atoms and molecules. This method has recently been applied to the manufacture of the world's most precise clocks, now with an accuracy of one part in 10,000 million.

He is also known for his participation in the first experiments on thermodynamics systems at negative absolute temperatures (such systems are hotter than infinite temperatures not colder than absolute zero.) He developed the theory of systems at negative absolute temperatures and showed that one formulation of the basic second law of thermodynamics must be altered when the existence of such negative temperatures is recognized.

Purpose of Sigma Xi is the promotion of scientific research.

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RELEASE: Immediate

Date Mailed: 3/17/61

Aid in choosing one career from today's many and varied possibilities will be given to an expected 2,000 high school and junior college students Saturday, April 15, at the 13th annual Chicago area Career Conference at Illinois Institute of Technology.

Students will hear informal panel discussions in which prominent members from almost every phase of business, industry, professions, science, and the arts describe the opportunities and requirements of over 100 specific vocations.

The purpose of the day-long conference is to supply the students with authoritative and up-to-date information so that they can be assisted in the process of intelligently choosing the occupations for which they are suited. The schedule is arranged in order that a student may participate in a total of four panels. It is open to all students in Cook, DuPage, Lake, Kane, Will and McHenry counties in Illinois, Lake County in Indiana, and any others desirous of attending.

The conference is sponsored jointly by the Chicago Sun-Times, the Chicago Technical Societies Council, and Illinois Tech. Registration blanks will be printed daily in the Sun-Times and will be available at high schools.

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RELEASE: On or After March 21, 1961

CHICAGO, Ill., March 20, 1961 -- Architect Ludwig Mies van der Rohe, author of the basic building design utilized on the campus of Illinois Institute of Technology, last night (Monday, March 20 at 9 p.m.) discussed his early formative years in the initial segment of a- four part series seen on channel 11's American Heritage program.

On successive Monday evenings at 9 p.m., Mies will continue his informal talks with George Danforth, director of the Illinois Tech department of architecture, discussing other aspects of his professional life. The next half hour program to be seen on March 27 will deal with Mies' work after the first World War until he came to the United States in 1938.

The last two segments will feature discussions on his architectural work in America from 1938 to the present time as well as projects for future development, and his contributions to architectural education.

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R RELEASE: Immediate

CHICAGO, Ill., March 20, 1961 -- Lawrence G. Smith, 10553 S. Normal, a senior in the department of business and economics at the Illinois Institute of Technology, has been awarded a Woodrow Wilson graduate fellowship, it has recently been announced.

The Woodrow Wilson graduate fellowship program, designed to encourage college seniors of outstanding ability to study for advanced degrees with faculty jobs as their goal, is intended to help reduce a nation-wide shortage of qualified college teachers. It is administered by the Woodrow Wilson National Fellowship Foundation under a grant from the Ford Foundation.

Smith, a 22 year old economics student at Illinois Tech and an alumnus of Fenger high school, is one of 1,333 nation-wide winners in the competition that attracted 10,543 applicants for the fellowships. He will be graduated from IIT in June.

Active in extracurricular programs at IIT, Smith has served as editor of the student newspaper, Technology News, is a member of the Pi Kappa Phi fraternity, and contributes to the school's humor magazine, Listenings.

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Mailed: 3/20/61

RELEASE: Immediate

Four new faculty members have been added to the staff of Illinois Institute of Technology, it was announced by Dr. John T. Rettaliata, president of IIT.

Dr. William F. Darsow (5457 S. Everett ave.) was named associate professor in the mathematics department. Prior to his appointment at IIT, Darsow was an associate professor of mathematics at DePaul University. He received his bachelor's degree from the University of Minnesota in 1942, and his doctorate from the University of Chicago in 1953.

Named associate professor in the department of mechanical engineering, Edmund C. Curry (308 Turner ave., Glen Ellyn) joined IIT after serving for many years as manager of the analytical engineering department at Ingersoll-Rand Corporation, Phillipsburg, Pennsylvania. Curry has pioneered in the field of applying advanced technology and digital computer techniques to research and the development of industrial equipment. In this capacity he has contributed to research in high-speed turbomachinery, reciprocating engines, compressor and rock drilling equipment, and has also supervised the IBM 650 computing facility at Ingersoll-Rand. Married and the father of one child, Curry was also a lecturer in the graduate program at Lehigh University where he taught advanced courses in mechanical engineering. He received his bachelor's degree at Pratt institute in 1939, and his M.S. at Lehigh in 1954.

- more -

Add 1
Four new faculty members

Dr. Dietrich Heinert (501 E. 32nd st.) was appointed as assistant professor in the IIT chemistry department. Heinert, who performed undergraduate and graduate work in Germany, received his Ph.D. from Clark University in 1959. An assistant professor of chemistry at Clark before being appointed at Illinois Tech, his fields of specialization include organic synthesis, spectroscopy and nuclear magnetic resonance.

Walter F. Oberheim, (2679 Burling st.) appointed an instructor in the physics department, received his bachelor's degree from IIT in 1950, and his master's degree from DePaul University in 1957. Married and the father of three children, Oberheim is presently working toward his Ph.D. at Illinois Tech. Before joining the IIT faculty, Oberheim was an associate physicist at Armour Research Foundation, which is an affiliate of Illinois Tech.

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RELEASE: Immediate

Date Mailed: 3/20/61

CHICAGO -- Publication of a key reference book for metallurgists and for those in the metals industries doing research on alloy development has been scheduled by Armour Research Foundation of Illinois Institute of Technology.

The Foundation currently is reviewing all the important literature related to metallic binary equilibrium. The evaluation and editing will be done by Dr. Rodney P. Elliott, ARF senior metallurgist, and initially, will cover literature published between 1956-59.

A previous ARF literature review was completed with the publication of Hansen's "Constitution of Binary Alloys," which included material through 1955.

Sponsor of the three-year program is the Wright Air Development Division of the Air Force, which also supported the original review.

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R RELEASE: Immediate

Date Mailed: 3/20/61

A contract for conducting a series of research management seminars in Japan has been awarded to Armour Research Foundation of Illinois Institute of Technology, it was announced by Paul B. W. Gollong, director of international research.

Sponsored by the International Cooperation Administration in association with the Japanese Productivity Center, Tokyo, the program will be divided into two parts, according to Dr. Milton E. Nelson, ARF research advisor who will head the team in Japan. The first phase of the program will involve visiting Japanese industrial laboratories to study the management within these organizations with an eye to their policies, operations, and effectiveness of their research.

The second phase will consist of a series of four-day seminars on research management for top level executives of Japanese research organizations to be conducted in Tokyo and Osaka. Approximately 15 executives will attend each seminar at which such topics as research organization and personnel administration, research planning and funding, and research evaluation will be covered.

In addition to the study and seminars, Nelson and Dr. Fred V. Schossberger, assistant director of chemistry research at ARF, who will accompany Nelson, will consult with the research management personnel on any problems they may be experiencing in their firms.

The program, already under way, will conclude July 31, 1961.

-jam-

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R RELEASE: On or after 7 p.m., Tuesday,
March 21, 1961

CHICAGO -- A prediction that banks will take over the accounting tasks of industrial firms, and become the financial hubs for them, was made Tuesday, (March 21) by a Chicago researcher in electronics.

"With more effective use of data processing systems, banks could handle payroll, trust, routine debt payments and collection of a company's billings," Virgil Disney told the American Institute of Banking.

Disney is director of electronics research at Armour Research Foundation.

"The future challenge to banks is using their electronic equipment as accounting systems for industry and the public," he said.

For smaller banks, which may not be able to justify data processing equipment, Disney suggested that they invest in a facility and "pool" the use of it. "This is especially appropriate in unit banking states, such as Illinois," he noted.

Disney said banks could perform accounting functions for industrial companies at a lower cost to them.

"Although bank functions have become more widely accepted, and bank services have grown, the tremendous flow of paper is a burden to many tasks." For example, he cited the number of checks handled annually by banks has increased more than 500 per cent from 1940 to 1960, from 2.5 billion to 13 billion.

- more -

Commenting on this daily deluge of paper, he said there are two solutions to the problem:

1) Operational methods to reduce the paper flow and

2) Data processing systems which will quickly, accurately and efficiently handle checks and documents.

"Direct payment of bills, and automatic payroll depositing, will help decrease the total number of checks," he said.

Also, methods of handling inter-bank checks will be expedited by transferring magnetic tapes containing demand deposit information, instead of checks between banks; and common business languages between machines will allow transfer of magnetic tapes between banks, thereby eliminating the need for intermediate forms of paper.

Will the banking industry rise to the challenge? Disney believes it will.

"Banks will offer greater services which will be readily marketable, create new demand deposit accounts, and obtain more use for their data processing equipment," he said.

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RELEASE: Immediate

Date Mailed: 3/23/61

Virgil H. Disney (40 S. Stough St., Hinsdale, Ill.), director of electronics research at Armour Research Foundation of Illinois Institute of Technology, was presented an honor award for Distinguished Service in Engineering at the University of Missouri, Columbia, on March 18.

Disney was among five alumni of the university's engineering college to receive the award from Dean Huber O. Croft at the annual engineering convocation.

Disney was presented a bronze medal and was cited for "His engineering and management contributions to the development of electronic computers, automation and communication systems; his administrative and engineering skill as director of the electronics research division of the Armour Research Foundation and as president of the National Electronics Conference."

Disney received his B.S. degree in electrical engineering from Missouri in 1936. He joined Armour Research Foundation in 1949 as a supervisor in electronics research and was named research director in 1954.

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Donald P. Anderson, ext. 849

R RELEASE: IMMEDIATE

How is the U.S. meeting the challenge of the space age? Three Chicago space experts will tell "how" Monday, March 27, at 8 p.m., on the channel 11 (WTTW) program, "Meeting of Minds."

Panel members will be Dr. T. Paul Torda, director of fluid dynamics research at Armour Research Foundation and a scientist in the field of liquid and solid propellants; Dr. Andrew A. Fejer, director of the department of mechanical engineering at Illinois Institute of Technology and a researcher in aerodynamics; and Dr. Allen Hynek, chairman of the department of astronomy and director of the Dearborn Observatory at Northwestern University.

Program moderator will be Harry Homewood, bureau chief of Newsweek in Chicago. The show is being produced by Illinois Institute of Technology and coordinated by the University Broadcasting Association.

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James Stathas
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RELEASE: Immediate

CHICAGO, ILL., March 27, 1961 -- As a result of a number of years of study, an Illinois Institute of Technology biology professor has reported that Lake Michigan water can be classified into four definite types regarding their natural toxicity to dysentery bacteria (Shigella sonnei).

By introducing dysentery organisms into lake water sterilized by filtration, Dr. Leslie R. Hedrick, who is director of the biology department, found the water may be characterized into the following types: 1) high toxicity with low stability, 2) stable toxicity with lower potency, 3) incipient toxicity activated by heat and 4) essentially no toxicity, even when heated to 100 degrees Centigrade for 10 minutes.

Principal purpose for the study was to determine why organisms decrease in number when they are stored in lake water. Although Hedrick's study does not reveal why some lake water is more poisonous to microorganisms than others, he did find that application of heat to Lake Michigan water usually causes an increase in toxicity with the exception of stage four. This finding is in contrast to the results of tests on sea water, in which it was found that the application of heat decreases toxicity.

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RELEASE: Immediate

Date Mailed: 3/29/61

The Fifth Annual Fluctuations in Solids Symposium will be held May 19, at Armour Research Foundation of Illinois Institute of Technology, it was announced by Dr. James J. Brophy, assistant director of physics research and chairman of the meeting.

Co-sponsored by ARF and the Office of Naval Research, the one-day symposium provides a means for exchange of scientific and technical information between solid state physicists actively working on random phenomena in solids. Subjects to be discussed at this year's session include noise from hot electrons and tunneling, G-R noise in photoconductors, and 1/f noise.

Professor Ronald E. Burgess of the University of British Columbia, Vancouver, B.C., will be the moderator at the 1961 meeting.

For further information: contact Dr. James J. Brophy, Physics Research Division, Armour Research Foundation, 10 W. 35th St., Chicago 16, Illinois.

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CHICAGO, ILL., April 3, 1961 -- A talk by a Chicago art critic will highlight the monthly meeting of the Illinois Institute of Technology Woman's Club, Wednesday, April 12, at 1 p.m., to be held in the Commons building on the IIT campus.

Miss Edith Weigle, art editor and critic of the Chicago Tribune, will speak on "Better and More Democratic Art Exhibitions in Chicago," it was announced by the club's president, Mrs. Alexander Cowie (3017 E. 78th st.). Miss Weigle's talk will reflect her belief that there should be some changes in the management of exhibitions of paintings and sculpture in Chicago. All schools of contemporary painting or sculpture, not only a select few which are generally accepted, should be represented in exhibitions and in art sections of newspapers, according to Miss Weigle. She said, "Exhibitions in Chicago do not present an adequate cross section of good American art."

Miss Weigle's presentation will follow a luncheon served by Mrs. Fritz Richter (9757 S. Hoyne), house chairman, assisted by co-hostesses Mrs. Harold Bretz (60 E. 32nd st.), Mrs. Elmer H. Schulz (3081 S. Park, LaGrange), Mrs. Haldon Leedy (330 Blackstone, LaGrange), and Mrs. Karl Menger (5506 N. Wayne ave.).

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RELEASE: At Will

Date Mailed: 4/5/61

A five-volume handbook of Thermophysical Properties of Solid Materials has been completed by the Armour Research Foundation of Illinois Institute of Technology and is being issued as WADD Technical Report 58-476. The work was done under sponsorship of the Materials Central, Wright Air Development Division, U.S. Air Force, and is to be published in hardback form by the Macmillan Company, New York.

Materials covered in the handbook include elements, alloys, ceramics, cermets, intermetallics, polymerics, and composite materials. Except for materials in the last two categories, only those melting above 1000°F are included.

The information in the handbook--covering approximately 4000 pages--was compiled by Alexander Goldsmith, Thomas E. Waterman, Harry J. Hirschhorn and a staff of assistants, from literature published during the period 1940-57. The task took over three years to complete.

Properties include the following: melting point, density, latent heats, specific heat, thermal conductivity, thermal diffusivity, emissivity, reflectivity, thermal expansion, vapor pressure and electric resistivity. Each reported value is shown

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and annotated, and recommended "most probable value" curves are given.

Each of the first four volumes is arranged in four sections: 1) introductory remarks and explanatory test; 2) materials index; 3) tables of conversion factors; and 4) body of data. The fifth volume consists of indexes and references. Each volume is designed to be expansible so that additional or revised data may be added.

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from
LINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

Public Relations
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

For further information on this release, contact:

C. R. Chu
CA 5-9600, Ext. 747

Immediate
RELEASE:

CHICAGO, ILL., April 6, 1961 -- The Illinois Institute of Technology Alumni association will launch its 1961 fund drive with the annual spring Kick-Off Dinner to be held at the Chicago Bar Association, Wednesday, April 19.

The campaign, which will see personal solicitation of IIT alumni employed by more than 200 companies in the Chicago area, will involve the efforts of nearly 300 fund workers who have volunteered to personally contact fellow alumni in the 1961 fund drive.

Featured speaker at the Kick-Off Dinner will be Dr. John T. Rettaliata, president of Illinois Tech. Color slides will illustrate Rettaliata's discussion of the development program at IIT.

Also attending the dinner meeting will be Clerio Uguccioni, 732 South Bell, Chicago, chairman of the IIT Alumni association's Corporate-Alumnus division, and seven vice chairmen who will work with Uguccioni in this drive. They are: John L. Bjork, 869 Cedar Lane, Northbrook; Gerald P. Campe, 4827 West Cornelia, Chicago; Earl R. Geiger, 3432 West 66th Street, Chicago; Benjamin L. Johnson, 915 173rd Place, Hammond, Indiana; Harry F. Kotecki, 2-N-124 Mildred Ave., Glen Ellyn; Peter J. Marschall, 2009 Greenwood Ave., Wilmette; and William O. Park, 5342 West Monroe Street, Chicago.

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R RELEASE: Immediate

CHICAGO, ILL., April 6, 1961 -- J. William Hasskarl, 1020 Thornburg Lane, Libertyville, director of development for the Chicago Housing Authority, will speak at the Illinois Institute of Technology Alumni association's monthly luncheon, Thursday, April 20.

Hasskarl, a graduate of IIT's architectural school, will talk on "Design for Living in Public Housing." He will describe problems of design and considerations that must be made in public housing, criteria, costs and maintenance.

Also included in Hasskarl's talk will be a discussion of the reclamation of Chicago's southside and the city's slum clearance and public housing programs in that area.

The luncheon will be held in the Club Room of the Art Institute.

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RELEASE: Immediate

CHICAGO, ILL., April 7, 1961 -- Leaders in science and business fields will address an expected 1800 high school seniors at the 13th annual Chicago area Career Conference to be held at Illinois Institute of Technology, Saturday, April 15.

The purpose of the conference is to supply the student with authoritative and up-to-date information in his fields of interest. The schedule allows the student to participate in panels discussing similar vocations so that he can make comparisons upon which to base his ultimate choice of a career.

The principal speaker at the conference will be William G. Caples, president of the Chicago Board of Education and vice president of Inland Steel Company.

The conference will begin at 8:40 a.m. with a general session in the auditorium of the IIT Student Union building. Registration for the conference may still be made either by mail or in person on the IIT campus on the date of the conference.

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RELEASE:

At Will

CHICAGO, Ill., April 7, 1961 -- Sharp increases in assembly line efficiency are now possible by using a new method of "balancing" developed by Armour Research Foundation of Illinois Institute of Technology. "Balancing" of an assembly line is achieved when operator job scheduling is such that idle time is reduced to a minimum.

Methods now being used in industry for scheduling assembly line workers are often less accurate and more complex than desirable, according to ARF mathematical analysts.

The new method, by contrast, not only results in more efficient assembly line schedules, but is much simpler to employ, more accurate and more flexible, which results in reduced labor costs.

The only information required for use of the new method is work element precedence relationships and durations which assembly line supervisors have available. Diagrams and tables are constructed from these data, and depending on the complexity of the assembly line, manual methods or digital computers are employed to obtain the desired balance conditions.

Simplicity, one of the chief advantages of this approach, is achieved because no complex calculations or extensive clerical operations are necessary. Only a little ingenuity and elementary arithmetic are involved in employing the method. It is so straight forward and logical that production people find it extremely simple, ARF researchers claim.

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Greater accuracy is due to a more realistic representation of assembly line conditions, while true flexibility in the method allows easy incorporation of changes in line characteristics. Several of the methods now in use also require digital computation, but none of these are as accurate or flexible as Armour's.

Any industry that has progressive assembly lines may use this method of balancing. It is particularly of value to home appliance and automotive manufacturers, where idle time of assembly line operators has been traditionally greater than in other facets of industry.

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some facts about

ORGANIC SEMICONDUCTORS

A SEMICONDUCTOR is a solid material whose ability to carry electrical current improves as the temperature increases. It lacks the effectiveness of a good metal conductor, but is superior to an insulator.

ORGANIC SEMICONDUCTORS are materials basically made up of oxygen, hydrogen, carbon. For example, wood, nylon, orlon. They are distinguished from inorganics, which include the metals.

GERMANIUM AND SILICON, which made possible the development of transistors, are currently the most important inorganic semiconductors. In 1960, transistors accounted for $301 million of the $500 million semiconductor market in the United States.

RESEARCH of organic semiconductors is still in the laboratory and experimental stage, although it has created a tremendous amount of interest among the chemical and electronics industries, medical researchers, and businessmen.

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2-2 Organic semiconductor facts

THERE IS HOPE for developing a wide range of semiconductor materials for a wide range of properties. Organic semiconductors are not better. Their properties are poorer than inorganic semiconductors. The real hope is diversity. Organic chemists can combine the basic elements -- carbon, hydrogen and oxygen -- in innumerable ways, but the detailed understanding of how these combinations lead to different electrical behavior is not yet known. Some day they may be able to tailor-make organic semiconductors, just as dacron and teflon are tailor made.

THE POTENTIAL is great. Organic semiconductors may have applications in medical research; they could lead to the production of small, inexpensive computing machines; or a world of new materials; or more effective devices, such as photocells, electronic coolers, power rectifiers. They may revolutionize the chemical and electronic industries.

THE EARLIEST research in organic semiconductors was undertaken by biochemists more than 50 years aho. They hoped to unravel the mystery of life processes, many of which are electrical in nature. Knowing the electrical behavior of organic materials will contribute to this unraveling.

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3-3 Organic semiconductor facts

CURRENT RESEARCH SEEMS to indicate that some organic semiconductors, such as anthracene, have properties similar to germanium and silicon. It is also known that some organic semiconductors must be made extremely pure, chemically, before their true properties can be realized. Many polymer plastics, such as polyacrilonitrile, which is used in fabrics, can be made seimconducting by chemical treatment or simple heating. Evidence of the diversity of properties is already apparent. Some materials, called charge-transfer complexes, approach metals in their electrical properties.

A BREAKTHROUGH will occur when physicists and chemists determine how an electrical charge goes through organic materials.

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Armour Research Foundation of
Illinois Institute of Technology
10 W. 35th St.
Chicago 16, Illinois

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RELEASE: At Will

CHICAGO, ILL., -- Twenty-five years of scientific research for industry and government was celebrated April 6, by Armour Research Foundation of Illinois Institute of Technology and plans were made to make the silver anniversary celebration a year-long event.

From a modest beginning in a few basement rooms at Armour Institute of Technology in 1936, the Foundation has grown to a seven-building complex on Technology Center, the campus of Illinois Institute of Technology at 35th and State sts. From two research projects valued at $40,000 during its first year of operation, the Foundation has become one of the largest research organizations in the world. Research volume for the fiscal year ending last August 31 totaled $16.5 million.

The silver anniversary celebration will continue through May of 1962, according to Dr. Haldon A. Leedy, ARF director, and will include dedication of a new $3½ million chemistry research building and a $1.2 million mechanics research building extension; a special three-day symposium involving some of the best known scientists in the world, and other scientific events to be announced during the anniversary year.

The Foundation has nine research divisions covering most of the physical sciences and related technologies: chemistry, physics, electronics, mechanics, metals, ceramics, fluid dynamics

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and systems, techno-economics and international.

ARF's operations have no geographical limitations. In addition to conducting research for governmental units and industries throughout the United States, the Foundation's activities extend to Venezuela, Mexico, Europe, Afghanistan, and many other distant lands. Its European headquarters is located in The Hague, Netherlands.

A staff of more than 1200 scientists, engineers, technicians, and administrators work at ARF, with over one-half of the professional persons holding masters or doctors degrees in fields of specialty.

The Foundation is responsible for many breakthroughs in science and technology in the past 25 years. One of the Foundation's best known developments is magnetic recording. Marvin Camras, an ARF staff member for more than 20 years, helped make wire and tape recording commercially practicable.

Other achievements include development of fiber metallurgy; a flame ceramics coating process; a lightweight 106 mm recoilless rifle and new-type ammunition with unprecedented tank-killing power; an explosive cartridge that is expended in the gun itself; a titanium base alloy with superior strength, heat and distortion resistance characteristics.

In addition to its industrial and government research, ARF also conducts long-range, fundamental research airmed only at the discovery of basic principles and a better understanding of the laws of nature.

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For further information on this release, contact:

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CHICAGO, ILL., April 11, 1961 -- Clerio Uguccioni (732 S. Bell ave.), mechanics research engineer at Armour Research Foundation of Illinois Institute of Technology, has been named director of the Corporate-Alumnus Division of the 1961 IIT Alumni Fund drive. The appointment was announced by Paul R. Unger (7809 Crandon), president of Midwesco, Inc., general fund chairman.

Uguccioni will direct the personal solicitation of alumni employed in nearly 200 major companies in the Chicago area. Named to head other divisions are Clifford I. Mock (3345 W. 61st), who was appointed chairman of personal solicitation in Metropolitan Chicago, and John A. Baker (489 Turner, Glen Ellyn), who will serve as suburban chairman.

The fund drive program will be launched at the annual spring Kick-Off dinner, to be held Wednesday, April 19, at the Chicago Bar Association.

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RELEASE:

Immediate

CHICAGO, ILL., April 12, 1961 -- What are the market projections for the next ten years in the mushrooming semiconductor material industry? How do the organic materials fit into this picture? Will organic semiconductor devices eventually outclass the present market for inorganic semiconductor devices?

These and other questions relating to this challenging new field will be answered April 18 and 19 as research and management people from the chemistry and electronics industries gather at Chicago's Morrison Hotel for the two-day conference on organic semiconductors.

The meeting, co-sponsored by Armour Research Foundation of Illinois Institute and a McGraw-Hill Publication, will be the first open conference on organic semiconductors to be held in the world, and a substantial attendance by scientists from abroad is anticipated.

Twenty-one research papers will be presented, including discussions on molecular crystals, charge transfer complexes, photoconductivity, electrical and thermal transport and properties of new organic semiconductors.

Any inquiries should be addressed to Dr. James J. Brophy, Armour Research Foundation, 10 West 35th St., Chicago 16.

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R RELEASE: Immediate

CHICAGO, ILL., April 12, 1961 -- Illinois Institute of Technology will host the sixth annual metals research seminar of the American Society for Metals, Thursday, April 20.

The one day seminar will deal with "Properties of Metallic Surfaces." Some 300 metallurgists and other scientists and engineers from throughout the midwest are expected to attend the meeting, which will be held in Illinois Tech's Chemistry building auditorium beginning at 8:45 a.m.

Following a welcoming address by Dr. Joseph C. Boyce, (134 S. Park, Hinsdale), IIT academic vice president, five speakers will present the basic concepts of metal surfaces and how they appear and behave. Together with the times at which they will speak, their subjects are as follows: (9:40 a.m.) Dr. Erwin W. Muller, research professor of physics, Pennsylvania State university, "Physical Properties and Direct Observations of Surfaces;" (10:55 a.m.) Dr. Pierce W. Selwood, (727 Monticello, Evanston), professor of chemistry, Northwestern university, "Magnetism and Molecular Interactions at Surfaces;" (11:55 a.m.) Dr. Frederick W. Young, Jr.,chemist, Oak Ridge National Laboratory, "Crystal Imperfections and the Chemical Reactivity of Metal Surfaces;" (2:20 p.m.) Dr. A. R. C. Westwood, Research Institute for Advanced Studies, Baltimore, "The Effect of Surface Condition on the Mechanical Properties of Materials;" (3:15 p.m.) Dr. Frederick N. Rhines, professor, University of Florida, "On Bonding at Metal Interfaces."

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Dr. Raymond K. Hart, (6005 Osage, Downers Grove), an associate chemist at Argonne National Laboratories, will serve as moderator and present introductory remarks at the beginning of the seminar.

The program for the seminar was organized jointly by chapters of the American Society for Metals, with Dr. Michael V. Nevitt, (908 Lyford Lane, Wheaton), an associate physical metallurgist at Argonne National Laboratories, serving as chairman of the seminar committee. The Chicago-Western chapter is sponsoring the meeting.

The American Society for Metals is the largest professional metals trade and research organization, having over one hundred chapters with more than 30,000 total membership. The society's headquarters is located at Metals Park, Novelty, Ohio.

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RELEASE:

immediate

CHICAGO, ILL., April 14, 1961 -- Dr. Hans Thirring, professor emeritus of theoretical physics and former Boltzman professor at the University of Vienna, will speak on "Space Conquest--A Blind Alley," before a meeting of the Illinois Institute of Technology chapter of the Society of the Sigma Xi, Monday, April 17, at 8 p.m., on the IIT campus.

Thirring's talk will reflect his belief that man should not attempt to penetrate further into space or even send a manned expedition to the moon. According to the scientist, space probes are not worth the multi-billion dollar expenditure because of very little reward once we succeed in developing efficient space travel.

Thirring maintains that, "Certainly the existence of the Van Allen belt of radiation, revealed by an American satellite, was quite an interesting discovery. While, however, this discovery is by no means as important as that of radium or X-rays or cosmic rays, it is mainly remarkable that this discovery cost about 100,000 times more than those basic discoveries that changed our conceptions of matter and radiation."

Although a physicist, Thirring has authored a number of philosophical books which deal with mankind's destiny in relation to its uses of newly discovered technology. Much of his works deal with problems of education and re-education of man for a better world.

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Inventions are another hobby of the former physics institute director. During World War I he constructed a new type of light sensitive selenium cell that was used for light telephony and sound film reproduction. In 1927 he invented an independent method for recording sound on films which was used for the first talking movies made in Austria. In 1931 he invented the first all-metal ski binding, and in 1937 he developed a wing-coat for skiers that could be used as a parachute for extremely steep runs.

During his career, Thirring has been engaged in a number of areas of research including electrostatics, radioactivity, photoelectricity, theory of special heats, relativity, atomic structures and crystal symmetry, and tensors and theory of electricity.

Thirring, who is visiting the United States through an invitation from Dr. Jerome Wiesner, scientific advisor to President John F. Kennedy, is making a special stop at Illinois Tech as a personal favor to his former student, Dr. Eric T. B. Gross, who is now a professor of electrical engineering at IIT.

Preceding the talk, which is open to the public with no admission charge, will be a dinner in the Illinois Tech student union.

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R RELEASE: Immediate

CHICAGO, ILL., April 24, 1961 -- Illinois Institute of Technology has been awarded a $60,000 National Science Foundation grant for the support of a research participation program in which ninety superior undergraduate students will take part.

The NSF award will make it possible for IIT to offer students grants of $600 each for a summer research program of ten weeks. Scholarships will be awarded to cover additional tuition costs during the summer course.

Purpose of the program, which is now in its third year at Illinois Tech, is to make it possible for top students to obtain research experience under the direction of IIT faculty members. According to the program's director, Dr. Peter Chiarulli (3100 S. Michigan ave.), professor of mechanics and chairman of the department, this early research experience will be of significant value to the many undergraduate participants who will continue on to graduate work.

While in the program, each student will work directly with a faculty member on a specific research problem. In most cases academic credit will be possible for the research work.

The program will be carried out by IIT's departments of biology, chemistry, physics, chemical engineering, electrical engineering, industrial engineering, mechanical engineering, and mechanics. Besides the summer session, additional research opportunities are available during the regular school year.

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Students interested in participating in the program may obtain further information by writing Chiarulli at Illinois Institute of Technology, 3300 S. Federal st., Chicago 16, Ill.

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CHICAGO, ILL., April 26, 1961 -- Illinois Institute of Technology's 1960-61 basketball team and two of its players are among the nation's college division leaders, according to a report by the National Collegiate Athletic Association.

The Techawk squad, with a 15-7 season record, was rated tenth in team defense, its opponents scoring an average of 59.2 points per game. The IIT team was also rated fifth among the nation's field goal percentage leaders, scoring 585 times out of 1,164 field goal attempts, for a .503 average.

Individual leaders in the NCAA report were team captain Mike Wayte and guard John Bagley. Wayte was listed sixth among free throw percentage leaders with an .871 average, and Bagley was tenth in field goal percentages. Bagley hit on 111 field goals, out of 188 attempts, for a .590 average.

The IIT Techawk five also won the Rochester Institute of Technology (N.Y.) holiday invitational tournament championship last December 20.

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CHICAGO, ILL., April 26, 1961 -- A "Fashions in the Gallery," show will highlight the annual spring benefit of the Illinois Institute of Technology Woman's Club, to be held on the IIT campus, in Crown Hall, on Friday, April 28, at 1 p.m.

The fashion show, presented by professional models, will take place against a background of the Maremont 20th Century Art Exhibit, it was announced by Mrs. Ralph Peck (8458 S. Sangamon), chairman for the day.

Presenting commentary on the fashion display will be Lee Phillip, Chicago television personality. The show will consist of creations from the shop of Jewell Barlow Webb, "Hats by Sue," and "Jewell-ry by D'Joneron."

Tea will be served at 1 p.m., and guests will have a half hour viewing of the modern art exhibit, which has been collected by the Maremont family during the past 22 years.

Tickets, which are $2 each, are available at the Illinois Tech bookstore, 3200 S. Wabash ave.

-crc-

Immediate

James Stathas
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CHICAGO, ILLINOIS, May 1, 1961 -- Greek Week at Illinois Institute of Technology, April 30 to May 5, marks six days filled with high jinks and public service for Illinois Tech fraternities.

One of the week's highlights will be the students' door to door Cancer Crusade solicitation, Tuesday, May 2, kicked off at 4 p.m. with an all-fraternity tug-of-war and water fight. Tug-of-war losers will find themselves in water-filled ditches which the students are now digging on a lot at E. 33rd st. and S. Wabash ave. A goal of $3,000 has been set for the collection by the sponsoring interfraternity council.

Other activities during the week include a program, Thursday, May 4, "Communist Menace in American Colleges?" during which the controversial movie, "Project Abolition," which concerns the House Committee on Un-American Activities, will be shown. Speaker will be Dr. Donald W. Smithburg, IIT associate professor of political and social sciences and representative of the Education for American Security Group.

In still another program, Wednesday, May 3, Harold W. Munday, a 1923 graduate of IIT, will speak on "Fraternities and Illinois Tech." Munday, who is a member of the school's board of trustees, was instrumental in formulating the present fraternity house area on the 115 acre campus.

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Add 1

Greek Week

A carnival and an all-school dance, Friday, May 5, will provide the week with a festive finale. All proceeds from the carnival and dance will be donated to the American Cancer Society.

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R RELEASE: Immediate

CHICAGO, ILL., May 3, 1961 -- Illinois Institute of Technology has been awarded a Ford Foundation grant of $50,000 to be utilized in a program to encourage highly qualified individuals into faculty careers in engineering, it was recently announced by Dr. John T. Rettaliata, IIT president.

The grant will enable Illinois Tech to make forgivable loans to present or potential doctoral students who wish to enter engineering faculty careers but who have financial needs that prevent them from completing their courses. These loans are meant to meet legitimate personal financial needs that cannot be met by other means already at the institution's disposal.

The loans to be awarded may be granted over a period of three years to any one applicant, but the total loaned to him shall not exceed $10,000. It will be forgiven at the rate of $1000 per year for service on an engineering faculty in the United States or Canada. If the recipient does not so serve the loan is repayable at the rate of $100 per year. Selection among eligible candidates will be based on the degree of likelihood of excellent performance by the applicant both as a doctoral candidate and as a teacher of engineering.

Funds accumulated from interest and repayment will be re-used by IIT under the original terms. If, after five years from the date of the original Ford Foundation grant, IIT authorities deem that it is no longer practical to so use such funds, the remaining portion of the grant may then be expended for any educationally useful purpose.

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R RELEASE: FOR RELEASE

Thursday, May 4 at 3 p.m.

CHICAGO, ILL., May 4, 1961 -- More than 100 Chicago-area high school students were presented awards today in the eleventh annual Chicagoland High School Drafting honors assembly, held at Illinois Institute of Technology.

The two top winners of the contest were John E. Petrovic, 6004 S. California ave., a senior at Lindbloom high school, and Raymond C. Runquist, Jr., 2744 N. Moody, a Steinmetz high school senior. They each received a one-year full tuition scholarship to IIT. The competition winners were chosen from a record total of 10,000 entrants, according to contest director John T. Dygdon, assistant professor of technical drawing at Illinois Tech.

Speakers at the awards ceremony were Dr. Hobart Sommers, Chicago assistant superintendent of schools; Br. L. Theodore, F.S.C., director of De La Salle Institute; Dr. Joseph C. Boyce, IIT academic vice president; and program chairman Henry C. Spencer, director of the technical drawing department.

(More)

Parents, teachers and friends of the contest winners saw the presentation of more than 100 prizes consisting of professional drafting equipment, engineering equipment and achievement certificates. Consolation winner, Thomas Potter, a student at Moosehart (Ill.) high school, was presented a $150 reproduction machine. The prizes were donated by over 40 business and industrial firms throughout the country.

The annual competition, which began in 1950, is sponsored by the Illinois Tech technical drawing department, and is sanctioned by the Chicago Board of Education and the Illinois High School Association.

Students entered in the contest represented approximately 97 public, private and parochial schools in the Chicagoland area. The winning drawings were selected by a group of judges from industry and from engineering colleges.

Purpose of the competition is to encourage and recognize outstanding ability of students in the fields of drafting and engineering. The competition also enables the student to come in direct contact with an engineering college and motivates him to greater effort in his drafting assignments and increases his interest in continuing his education after graduation.

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R RELEASE: Immediate

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CHICAGO, ILL., May 4, 1961 -- The annual spring luncheon of the Illinois Institute of Technology Woman's Club will be held at Jacque's French Restaurant, 900 N. Michigan, Wednesday, May 10, at 12:30 p.m. The luncheon marks the termination of activities for the club year, and the conclusion of Mrs. Alexander Cowie's (3017 E. 78th st.) two-year term as president of the club.

Following the luncheon, Mary E. Cliver (1135 Dartmouth Road, Flossmoor, Ill.) will review Irving Stone's new book, The Agony and the Ecstasy. Mrs. Cliver, a graduate of the University of Chicago, is a popular book reviewer who reviews and dramatizes her presentations with warmth and artistic ability, according to Mrs. Cowie.

In charge of arrangments for the luncheon is Mrs. Ivan L. Hill (10820 S. Fairfield) chairman of the IIT Woman's Club social committee. According to Mrs. Hill, table decorations will carry the French motif as suggested by the locale of the luncheon. She also announced that door prizes will be presented at the luncheon.

Reservations may be made by telephoning Mrs. Hill, BEverly 3-3630, by Monday, May 8.

-crc-

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LINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

Public Relations
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology

For further information on this release, contact:

Charles A. Sengstock, Ext. 745

RELEASE: AM's Tuesday, May 9, 1961

Dr. James L. Wyatt, 37, has been named vice president for program development at the Armour Research Foundation of Illinois Institute of Technology. His appointment, effective immediately, was announced by Dr. Haldon A. Leedy, director of ARF.

For four years prior to joining ARF Wyatt was an associate in the New York offices of Booz-Allen and Hamilton, management consultants. During this period he specialized in research and development management, systems and procedures, and new product planning programs.

Wyatt was affiliated with Horizons, Incorporated, a contract R&D organization in Cleveland, Ohio from 1953 to 1957. He served in various capacities, as technical manager, head of the metallurgical engineering department, and manager of new products and commercialization.

From 1947 to 1950 Wyatt was a development engineer with the titanium division of National Lead Company, Sayreville, N. J. He was responsible for developing a commercial version of the Kroll process for titanium metal production. The process subsequently was commercialized, and now operates as The Titanium Metals Corporation of America in Henderson, Nevada.

-more-

In his new position Wyatt will plan and coordinate all promotional activities for government and industrial research and will assist in the planning and development of new fields of research.

Wyatt is a native Kentuckian and graduate of the University of Kentucky, where he received both BS and MS degrees in metallurgical engineering. He attended graduate school at Massachusetts Institute of Technology, receiving his ScD degree in metallurgy in 1953. He is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers, the American Society for Metals, and is a registered professional engineer in the state of Ohio. He also holds a commercial pilot's license.

Wyatt, his wife and two children will reside in Wilmette, Illinois.

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News Supervisor: Jack A. Miller
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For further information on this release, contact:
Charles A. Sengstock, Ext. 745

R RELEASE: AFTER 2 PM (CDT), MAY 10, 1961

CHICAGO, ILL., May 10 -- A $2 million contract has been awarded to Armour Research Foundation of Illinois Institute of Technology for technical support of a tri-service program to analyze and control radio interference in this country and abroad.

In announcing the research program, Dr. Haldon A. Leedy, ARF director, said the center will function as the hub of the Defense Department's compatibility program. It will be operated in cooperation with the three military services.

ARF was awarded the contract by the Electronic Systems Division, Hanscom Field, Mass., of the Air Force Systems Command. Leedy said a temporary center will be set up at ARF, where electronic and mathematics specialists will develop methods for processing and analyzing radio interference problems. Later, the center will be operated by ARF at a permanent facility located at the U. S. Naval Engineering Experiment Station, Annapolis, Md.

-more-

The permanent facility will include a large digital computer for data processing. Leedy explained that radio interference has seriously reduced the efficiency of some of today's sensitive, high-powered electronic equipment, and as a result, could affect the future missions of the armed forces.

The center, officially designated as "The Electromagnetic Compatibility Analysis Facility," will have two important research goals: to correct existing radio interference problems, and to provide guide lines for improved equipment design.

Radio interference can affect missile launchings, satellite tracking systems, aircraft command links, military operations, and warning systems. Technical director of the center will be Stanley J. Cohn, ARF assistant director of electronics research.

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For further information on this release, contact:

May 11, 1961

MEMORANDUM TO EDITORS:

A news item concerning the $50,000 Ford Foundation grant to Illinois Institute of Technology, which was released by the IIT News Section on May 3, 1961, contained a factual error.

In that sentence of the third paragraph concerning repayment of loans, the correct information should be as follows:

"If the recipient does not so serve (on an engineering faculty in the United States or Canada), the loan is repayable at the rate of $1,000 per year,"

rather than "...at the rate of $100 per year."

It is sincerely regretted if any inconvenience or embarrassment has been caused by this error.

C. R. Chu
IIT News Supervisor

CA 5-9600, extension 747

from
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R RELEASE: Immediate

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For further information on this release, contact:

Jim Stathas, Ext. 747

Date Mailed: 5/15/61

One of the largest National Science Foundation grants ever awarded to an institution for the support of its In-Service Institute for high school teachers has been received by Illinois Institute of Technology, it was announced by Dr. John T. Rettaliata, IIT president.

The NSF subsidy, which totaled $60,550, was awarded to Illinois Tech in response to a proposal to expand IIT's In-Service program. The proposal was submitted by the program's director, Dr. Haim Reingold (7541 S. Clyde av.), IIT professor of mathematics and director of the department.

The IIT In-Service Institute enables high school teachers of mathematics, chemistry, biology, and physics to continue teaching full-time while taking the special courses. The classes, which begin in September, will meet on Saturdays. The NSF grant will enable 250 Chicago-area high school teachers to participate in the program at no personal cost. Tuition payments are defrayed by the NSF subsidy, and the teachers will be reimbursed for transportation and textbooks.

-more-

According to Reingold, IIT wished to expand its In-Service progam because, as an institution engaged in the education of scientists and engineers, concern was expressed over the quality of mathematics and science instruction in American high schools. He said, "The Institute's goals are threefold: to generate higher levels of mathematics and science teaching in the secondary schools; to develop increased teacher competence; and to aid teachers in attaining additional levels of qualification." He stated, "Those attending this Institute will benefit both from stimulating, advanced course work and from close association with other teachers from many secondary schools of the Chicago area."

High school teachers who reside within 50 miles of Chicago and wish to apply for participation in the Institute should write to Dr. Haim Reingold, Illinois Institute of Technology, Chicago 16, Ill.

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For further information on this release, contact:

RELEASE: Immediate

Jim Stathas, Ext. 747

Date Mailed: 5/16/61

Illinois Institute of Technology staff and students will see performances by trampoline artists, dancers, a comedian, and a comic pickpocket at the final IIT Student Union Board Concert of the year, to be held in the Illinois Tech student union, 47 W. 33rd st., Friday, May 19, at 8:30 p.m.

Performing at the concert will be dance team Nicki and Noel, who recently closed at the Palmer House Empire Room; Chase and Park, trampoline artists who were most recently billed in Las Vegas; Ravelle the Pickpocket; and dialect comedian Dink Freeman.

Tickets for the open-to-the-public concert cost $1.50, and are available at the IIT student union.

Following the concert, there will be a street dance on S Dearborn st., between W. 32nd and W. 33rd sts.

-crc-

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For further information on this release, contact:

Jim Stathas, Ext. 747

R RELEASE: Immediate

Date Mailed: 5/17/61

IIT TO HOST CHICAGOLAND BASEBALL TOURNAMENT

Illinois Institute of Technology will host the semi-finals and finals of the annual Chicagoland Baseball Tournament this year, according to Bernard "Sonny" Weissman, IIT athletic director.

Schools taking part in tourney play are the University of Chicago, University of Illinois-Chicago, North Park, Lewis, Aurora, Chicago Teachers College, Concordia, and Illinois Tech.

The semi-finals and finals will be played on the IIT diamond, W. 31st and Dearborn sts., on Saturday, May 27, beginning at 1 p.m., and on Tuesday, May 30, at 2 p.m., respectively. Preliminaries will be played on home diamonds of the participating schools.

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ILLINOIS TECH FINISHES THIRD IN BOWLING CONFERENCE

The Illinois Institute of Technology bowling team finished in third place in final standings of the 1960-61 Midwest Bowling Conference.

Illinois Tech's Ron Tenggren (6130 Waveland) wound up second in individual scoring with 1103 points for a five game series. Wally Nedza of St. Joseph finished first with 1107.

-more-

add 1 --

BOWLING CONFERENCE, cont.

FINAL STANDINGS

COLLEGE	WINS	LOSSES	POINTS	AVERAGE
Notre Dame	30	20	67	917.16
Loyola	30	20	66	907.18
IIT	28	22	62	873.04
St. Joseph	24½	25½	55	881.37
De Paul	23	27	49	896.07
Valparaiso	14½	35½	31	861.30

-30-

IIT FINISHES FOURTH IN TENNIS TOURNEY

Illinois Tech men gained a split in two doubles matches in the Chicagoland Collegiate tennis tournament, Saturday, and Illinois Institute of Technology finished in fourth place with 16 points.

The Illinois Tech doubles winners were Bob Golton (5821 W. Kingsdale), and Jim Carlin (3366 S. Michigan).

Tournament winner was De Paul with 25 points. Other competing schools were the University of Illinois-Chicago which finished with 18 points; University of Chicago, 17 points; Roosevelt University, 4 points; and Illinois Professional Colleges, 0 points.

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add 2 --

SCHEDULE OF ILLINOIS TECH ATHLETIC EVENTS

BASEBALL

Thursday, May 18 -- IIT vs. University of Illinois-Chicago (double header on IIT diamond)

Monday, May 22 -- IIT vs. North Park, at North Park. (preliminary in Chicagoland tournament)

GOLF

Friday, May 19 -- Chicagoland Golf Tournament at White Pines Country Club, 7 a.m.

Monday, May 22 -- IIT, Wayne State University, and the University of Chicago, at Flossmoor Country Club, 1 p.m.

TRACK

Saturday, May 20 -- IIT, North Park, University of Illinois-Chicago, Eureka, Concordia, St. Procupius, at Elmhurst.

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For further information on this release, contact:

C. A. Sengstock, Ext. 745

R RELEASE: Immediate

Date Mailed: 5/17/61

Lowest April average total dustfall reading thus far for the Chicago area was reported by Armour Research Foundation of Illinois Institute of Technology. The 44.8 tons per square mile April reading is 57 per cent of the average total dustfall reported for March of this year (79.0 tons), according to ARF research engineer Samuel Radner.

The next lowest April reading occurred in 1957 when 46.3 tons per square mile fell on the city.

The 79.0 tons dustfall reading for March of this year was 23.5 tons greater than that of February 1961 and 34.2 tons greater than April, Radner said. Several exceptional weather conditions were noted, he said, during the month of March: on the 4th, a tornado hit the south side of the city doing considerable damage to property; in addition there were three heavy wind storms recorded in Chicago on the 2nd, 6th, and 27th; and, according to the U. S. Weather Bureau, a heavy dust cloud originating in Kansas and Oklahoma was carried over the city on the 26th.

From these statistics, Radner said, it is evident that major increases in dustfall during March were caused by the influx of dust from outside the city rather than the tornado which appeared to cause a dramatic increase in only one station, Stony Island and 75th st. where the March reading was over twice the reading for last year during March.

-more-

Here are the dustfall readings for March and April of this year and April of 1960 as recorded at the 24 collecting stations in the city.

CHICAGO TOTAL DUSTFALL
Trends by Station
April, 1961

Ward No.	Station Address	April 1961	March 1961	April 1960
		Readings in tons per square mile		
1	State and Adams	55.3	138.9	110.9
1	33. N. LaSalle	72.3	210.8	84.3
	Loop Average	63.8	174.8	97.6
1	2135 S. Michigan	61.2	77.9	70.0
4	825 E. 44th	51.1	78.0	61.7
5	1362 E. 59th	36.1	56.1	45.1
7	7531 Stony Island	61.0	202.0	94.8
9	67 W. 113th Pl.	45.8	66.9	40.8
10	8858 Marquette	70.7	----	57.0
13	3105 W. 63rd	41.9	29.9	38.5
13	6140 S. Melvina	38.3	85.7	55.7
17	7559 Eggleston	31.3	39.6	35.0
19	1620 W. 99th	27.8	35.3	23.6
22	3608 Ogden	25.4	45.7	67.1
26	1500 W. Monroe	50.3	82.8	65.0
30	5055 Fulton	45.5	86.4	53.2
32	2940 W. Cortland	----	125.6	53.9
36	5602 Belden	36.3	51.0	35.0
40	3944 N. Sawyer	37.1	73.5	44.5
41	7350 Pratt	34.2	43.5	27.9
42	54 W. Hubbard	59.3	107.5	54.6
44	551 Grant Pl.	40.8	60.0	53.2
46	3532 Sheffield	48.8	98.7	79.8
49	1622 Pratt Blvd.	39.1	53.4	44.4
12	2240 W. 37th	40.7	62.9	53.0
	Averages (Including Loop)	44.8	79.0	54.4

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For further information on this release, contact:

C. R. Chu, Ext. 746

R RELEASE: Immediate

Chicago, Ill., May 18, 1961 -- A newly-equipped $30,000 hydraulics laboratory to be used in fire protection training will be opened at Illinois Institute of Technology Friday, May 19, it was announced today.

The new laboratory will be used by students enrolled in IIT's fire protection and safety engineering courses. Research and testing are other uses to be made of the laboratory. It is located in the main building on the Illinois Tech campus.

According to Professor Gerald L. Maatman, IIT director of the fire protection and safety engineering department, the addition of the laboratory represents another step in providing IIT with the most modern and best facilities possible for the education of prospective fire protection and safety engineers.

To mark the official opening, dedication ceremonies and a special luncheon will be held. Some 100 Illinois Tech alumni in fire protection and safety engineering are expected to attend.

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For further information on this release, contact:

Jim Stathas

CAlumet 5-9600, Ext. 747

R RELEASE: Immediate

CHICAGO, Ill., May 19 -- Dr. William A. Lewis (904 S. Elmhurst, Mt. Prospect), research professor of electrical engineering at Illinois Institute of Technology, has been chosen by the IIT chapter of the Society of the Sigma Xi to deliver the "Distinguished Faculty Lecture for 1961."

The annual Sigma Xi lecture will be presented Friday, May 26, at 8 p.m. in the Illinois Tech chemistry auditorium. Dr. Lewis' subject will be "Energy -- Servant of Man."

Purpose of the Society of Sigma Xi, which has 80,000 active members throughout the country, is to encourage original investigation in science, pure and applied.

The lecture is open to the public.

-crc-

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For further information on this release, contact:

Jim Stathas

CAlumet 5-9600, Ext. 747

R RELEASE: Immediate

CHICAGO, Ill., May 22 -- To make the 1961 Applied Mechanics Conference a family affair for out-of-towners, conference officials have scheduled trips and tours for wives of men who will attend the technical sessions.

The conference will be held on the Illinois Institute of Technology campus, June 14-16.

Trips planned for the ladies include visits to the Museum of Science and Industry, Baha'i Temple, and the Chicago Board of Trade. The trips are voluntary so that the ladies can spend the entire three days shopping if they so choose.

One of the highlights on the three-day schedule is the conference banquet, to be held at McCormick Place, Thursday, June 15. Banquet speaker will be Dr. Jerome Namais, chief, extended forecast section, U. S. Weather Bureau, who will speak on "Abnormal Weather Patterns."

The conference is sponsored by the Applied Mechanics division of the American Society of Mechanical Engineers in cooperation with the Chicago section, ASME.

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For further information on this release, contact:

Jim Stathas
CAlumet 5-9600, Ext. 747

R RELEASE: Immediate

CHICAGO, Ill., May 22 -- To give engineering graduate students from outside the Chicago area an opportunity to share in the benefits of a technical conference, officials of the 1961 Applied Mechanics Conference have announced a plan in which the student pays only a nominal fee for food and lodging.

For a fee of $12.00, the graduate students will receive four nights of dormitory lodging and breakfast and lunch for three days.

The Applied Mechanics Conference will be held on the Illinois Institute of Technology campus, June 14-16. It is sponsored by the Applied Mechanics division of the American Society of Mechanical Engineers in cooperation with the Chicago section, ASME.

Graduate students interested in attending the conference and who wish further information should write to: Dr. Frank Essenberg, Mechanics Department, Illinois Institute of Technology, Chicago 16, Ill.

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For further information on this release, contact:

Jim Stathas

CAlumet 5-9600, Ext. 747

R RELEASE:
Immediate

CHICAGO, Ill., May 26, 1961 -- "Versatility and Reliability of Fluid Power" will be the theme of the 1961 National Conference on Industrial Hydraulics, to be held October 19-20, at the Sherman Hotel in Chicago, it was announced by NCIH secretary, W. R. Smith, director of cooperative education at Illinois Institute of Technology.

The opening day keynote address will be delivered by Dr. Leslie W. Ball, director of reliability, Aero-Space Division, Boeing Airplane Co. His talk will concern responsibility for reliability as found in management of design, manufacturing, and quality control functions.

The conference, which is concerned with the latest developments in fundamental and applied industrial hydraulics, is sponsored by Illinois Institute of Technology and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

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For further information on this release, contact:

C. R. Chu

CAlumet 5-9600, ext. 747

RELEASE: Immediate

CHICAGO, ILL., May 29, 1961 -- Dr. Lloyd S. Michael, superintendent of Evanston Township high school, will address the Illinois Institute of Technology graduating class on Friday, June 9, at 8:15 p.m. in Orchestra Hall.

As principal speaker at the IIT commencement exercises, he will speak on the "Frontiers in Education."

Dr. Michael has been superintendent of Evanston Township high school for 13 years. In addition, he is presently serving as chairman of the Illinois State Scholarship commission and is also a member of the board of directors of the National Merit Scholarship corporation.

Dr. John T. Rettaliata, IIT president, will award degrees to 448 students completing their studies in both the graduate and undergraduate divisions of the Institute. Covering the fields of engineering, science and liberal studies, 330 B. S., 100 M. S., [illegible] and 18 Ph.D. degrees will be awarded.

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For further information on this release, contact:

G. B. CHU

RELEASE:

CHICAGO, ILL., May 31, 1961 --- The 1961 Applied Mechanics Conference, the 24th annual national meeting of The American Society of Mechanical Engineers, Applied Mechanics Division, will be held on the Illinois Institute of Technology campus June 14-16, 1961.

The three-day conference, co-sponsored by Illinois Institute of Technology and the Chicago Section of ASME, will feature presentations of technical papers on elastic plates, shells, vibrations of plates, vibrations and instability, fluid dynamics and plasticity by leaders in the mechanics field from throughout the world.

Two highlights of the conference will be the presentation of special survey papers, "Experiments in Fluid Mechanics for Geophysical Purposes," to be given by Professor Dave Fultz of the University of Chicago, and "Optimal Trajectory Problems," to be given by Professor A. Bryson of Harvard university.

Dr. Jerome Namias, chief of the Extended Forecast Section in the U. S. Weather bureau, will appear as the main speaker at the conference's Thursday evening banquet at McCormick Place. His topic will be "Abnormal Weather Patterns."

In addition to the business sessions of the meeting, a planned social program for the families of the conferees has also been arranged.

General conference chairman is Dr. Philip G. Hodge, IIT professor of mechanics.

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For further information on this release, contact:

James Stathas
CA 5-9600, Ext. 746

RELEASE: Immediate

CHICAGO, ILL., June 2, 1961 -- New full-tuition one year scholarships are being offered to freshmen entering the Institute of Design of Illinois Institute of Technology for the academic year 1961-62, it was announced today.

To be eligible for one of the awards, worth $1,050 each, an applicant must be in the upper half of his high school graduating class. He must be a superior student scholastically, possess an aptitude for art studies, and must pass the prescribed entrance examinations.

Scholarship winning students who are successful in their first year of study at the Institute of Design will be eligible for consideration for renewed or partial scholarships in subsequent years. Other types of financial assistance, including loans, are also available.

High school seniors interested in applying for a scholarship should write to or telephone the Institute of Design, CAlumet 5-9600, extension 469, for a personal interview. Deadline is June 30.

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For further information on this release, contact:

Charles A. Sengstock,
CAlumet 5-9600, Ext. 745

RELEASE: Immediate

Three supervisors of chemistry research were named at Armour Research Foundation of Illinois Institute of Technology, it was announced by Dr. George S. Gordon, ARF director of chemistry research. The appointments were effective June 1.

Dr. Alexander Vajda was named supervisor of polymer research; Dr. Evan Baltazzi, supervisor of organic chemistry research; and Dr. Otis W. Adams, supervisor of solid state chemistry research.

Vajda, 41, a graduate of the University of Zurich and the Swiss Federal Institute of Technology, has worked in polymer and rubber technology for the past 15 years as lecturer, research chemist and manager. He has done research on high-purity semiconductors, starch and dextrine, polyester and epoxy resin and self-extinguishing plastics.

Prior to joining ARF as group leader of polymer research in November, 1960, Vajda was a chemist with the Hooker Chemical Corp., in Niagara Fall, N. Y. Until the appointment of Dr. Vajda as supervisor, the polymer research section was administratively attached to the propellant chemistry research section under Dr. Morton Klein, supervisor.

-more-

Vajda lives at 3101 S. Wabash and is a bachelor.

Baltazzi, 42, new supervisor of organic chemistry research, received his undergraduate degree in chemistry at the University of Athens. As a state government scholar in France, he received the State Doctorate in physical chemistry from the University of Paris, Sorbonne. In 1954, he was granted the degree of D. Phil. (Oxon.) by the University of Oxford, England.

He has done basic research work in organic synthesis in France, polymer research in Canada, and was group leader in organic synthesis at Nalco Chemical Company before joining ARF in March, 1961. Baltazzi is author of numerous papers on organic synthesis and holds several patents on herbicides, bactericides, fungicides, polymers and coal-like substances.

Baltazzi, his wife and three children are living at 4228 Du Boies Blvd., Brookfield, Ill.

Dr. Adams, 35, newly-appointed supervisor of solid state chemistry research, has been with the Foundation since 1954. A graduate of the University of Chicago, he received his Ph.D. from the Illinois Institute of Technology in quantum chemistry. His special interest areas are interpretation and applications of electronic spectra; chemical reactivity of π-electron systems; and molecular complexes. During his seven years with ARF, Adams has worked in the fields of organic analysis and physical organic chemistry.

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Most recently, Adams has been active in programs involving the effect of microwave energy on organic materials and the organic semiconductor program for the Air Force office of Scientific Research.

Adams, his wife and two children reside at 770 Parkside, Elmhurst, Ill.

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For further information on this release, contact:

James Stathas
CAlumet 5-9600, Ext. 746

RELEASE: Immediate

CHICAGO, ILL., June 6, 1961 -- Captains-elect in baseball, tennis, and track at Illinois Institute of Technology have been named for the 1961-62 academic year, it was announced by Bernard "Sonny" Weissman, athletic director.

They are:

Baseball -- Joseph A. Pash, 22, son of Mr. and Mrs. Joseph Pash, 8417 S. Homan. A senior in metallurgical engineering at IIT, Pash is a 1957 graduate of Leo high school.

Tennis -- James W. Carlin, 21, of 3366 S. Michigan, is an electrical engineering senior at Illinois Tech. He is the son of Mr. and Mrs. Walter Carlin, 2513 29 1/2 st., Rock Island, Ill. Carlin is a 1958 graduate of Alleman high school, Rock Island.

Track -- Donald G. Hervey, 20, of 3360 S. Michigan ave., is an Illinois Tech junior in metallurgical engineering. Son of Mr. and Mrs. Hubert C. Hervey, Box 1612, Shreveport, La., Hervey is a 1959 graduate of Stonewall high school, Stonewall, La.

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RELEASE: Immediately

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Institute of Gas Technology

For further information on this release, contact:

Mike Noar
CAlumet 5-9600, Ext. 744

CHICAGO, Ill., June 6, 1961 -- Milestone developments in aerospace and weapon systems, the affects of radiation on petroleum products and electrical equipment, and a study to determine the causes of metal wear highlighted the past year's accomplishments of the Armour Research Foundation of Illinois Institute of Technology.

In its annual report issued today, Dr. Haldon A. Leedy, director of the research institution, revealed that the Foundation conducted 785 research projects for government and industry during the past year. Gross research volume reached an all-time high of $16,190,000.

Among the research achievements reported by Dr. Leedy were:

-- Electronic detonator for Army missiles simplifying complex fusing mechanisms, and enhancing personnel safety in handling rocket firing devices.

-- Automatic space capsule ejection from rocket in the event of sudden danger of fuel explosion while on launching pad

-- A magnetic tape recorder that automatically changes tape cartridges

-- Aviation fuel additive to eliminate conspicuous contrails from military jet aircraft in strategic situations

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Large-scale research initiated during the past year and currently being carried out by the Foundation include:

- -- Moon drill to measure physical qualities of moon and other terrestrial planets
- -- Space applications of fuel cells for power and reaction of photosynthesis to supply water for astronauts
- -- Development of ceramics to withstand progressively higher temperatures occurring during missile launchings
- -- Study of soil behavior in transmitting blast effects for Titan and Minuteman missile launching facilities

ARF continued its international program by helping other countries organize their own research and development institutes. During the past year, ARF completed an 8-year program in Burma where that nation's economy was bolstered by the development of a rice-bran oil industry and a superior method of manufacturing bamboo pulp for paper. ARF also participated in programs of technical assistance in Argentina, Afghanistan, Guatemala, Japan, and the new independent nations of Africa. In addition, programs are continuing in Brazil, Columbia, Mexico, Venezuela, and several countries in Europe.

To develop new research ideas, the Foundation self-sponsored 85 programs in various technological fields including studies in biological effects of ultrasonic energy, ductility of refractory metals, application of protective coatings to metals, and reactor-participator programs.

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New research facilities added during the year included an environmental high-altitude chamber to study behavior of animals and humans under high altitude conditions; a microprobe analyzer for precise chemical analysis of alloys; and a hypervelocity wind tunnel to study stress in aerodynamic design.

The past year marked the completion of a new 144,000 square foot, 3.5 million dollar Chemistry Research Building and a 1.3 million dollar addition to the Mechanics Research Building.

Developing its electronic data processing capabilities, the Foundation used its Univac 1105 digital computer facility, acquired last year, in numerous scientific programs. The giant electronic brain is being used to solve location-allocation problems by helping industry efficiently select new plantlocations as well as aid them in the manufacture and distribution of their products.

Looking toward the future, Dr. Leedy foresees a steady increase in the number and scope of research projects to be undertaken by the Foundation.

"Industry and government will continue to look to groups like the Armour Research Foundation to meet the growing need for research, to supply the competence and imagination demanded by our technological future," Dr. Leedy predicted.

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Institute of Gas Technology

For further information on this release, contact:

James Stathas
CAlumet 5-9600, Ext. 746

RELEASE: Immediate

CHICAGO, ILL., June 7, 1961 -- Grant Hintz (1031 Plum st., Aurora) was recently named most valuable player on the 1961 Illinois Institute of Technology baseball squad.

Although Hintz, an electrical engineering junior at IIT, compiled a 4-4 pitching record, a shaky defense cost him three of his four losses, according to IIT baseball coach Ed Glancy.

The 6' 4" Aurora West graduate appeared in 71 innings, allowed 61 hits, struck out 49, gave up 44 bases on balls, and ended the season with a 1.7 earned run average.

Glancy said, "Typical of the hard luck besetting the big right hander was a 3-1 loss to Concordia in the semi-finals of the Chicagoland Collegiate Tournament. In this game, Grant gave up two outfield singles and two scratch hits in the infield. Two first inning errors and a second inning wild throw gave the River Forest athletes their three runs--all unearned."

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RELEASE: Immediate

CHICAGO, ILL., June 7, 1961 -- A 1961-62 Fulbright Travel Grant to lecture in Belgium on American literature has been awarded to Dr. Howard P. Vincent (5535 S. Blackstone), Illinois Institute of Technology professor of English and director of the language, literature, and philosophy department.

This is the second time in ten years that Vincent has received a Fulbright lectureship.

Under this grant, which is U. S. sponsored and representative of American participation with foreign nations in the cultural exchange program, Vincent will lecture at the Universities of Liege and Ghent, both located in Belgium. In addition to his formal lectures, he will also tell European students of life in America and serve as moderator of a conference on "Aspects of Contemporary America," which will be held at Ruskin College, Oxford, in July.

Fulbright awards for the 1961-62 academic year are limited to some 500 American college teachers for the purpose of lecturing and performing research abroad. All candidates for the travel award, according to the provisions of the Fulbright Act, are selected by the Board of Foreign Scholarships, the members of which are chosen by the President of the United States.

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Listed in *Who's Who in America,* Vincent is a graduate of Oberlin College and received his master's and doctor's degrees from Harvard University. Besides being the author of numerous book reviews in both scholarly and popular periodicals, he is general editor of the *Complete Works of Herman Melville,* and he wrote *The Trying Out of Moby Dick,* and co-edited, with Luther Mansfield, *Moby Dick.*

Before joining Illinois Tech in 1942, he taught at Hillsdale College, Mich., where he was chairman of the English department.

During the 1954-55 academic year, Vincent taught in France under his first Fulbright award, and from 1955 to 1957 he was director of the Library Services in France for the United States Information Service, where he was head of eight libraries. He resumed his IIT department directorship after returning from his long leave of absence.

Vincent has also been the recipient of the Ford Foundation Fellowship for the Advancement of Education, the Harvard University Dexter Traveling Fellowship, and an honorary doctor of literature degree from Hillsdale College.

Vincent's wife, Mary, will join him in Europe this fall and the couple will travel extensively throughout the continent before returning to the U. S.

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Mike Noar

CAlumet 5-9600, Ext. 744

R RELEASE:

Wednesday, June 7, 1961

CHICAGO, ILL., June 7 -- The Wright Aeronautics Division of the Curtiss-Wright Corporation today became the newest member of a team of nationally-known industrial firms in an extensive study to determine the causes of wear and friction in metals, according to the Armour Research Foundation of Illinois Institute of Technology.

Initiated a year ago with 10 industrial sponsors, ARF researchers on the program are seeking the answers to the age-old mysteries surrounding the wear and friction properties of metals.

The other companies taking part in the three-year, $300,000 program are American Steel Foundries, Bethlehem Steel Company, Briggs and Stratton Corp., Clevite Corp., Dow Chemical Company, Inland Steel Company, International Harvester Company, International Nickel Company, Socony-Mobile Oil Company and the United States Steel Corporation.

"Successful completion of the project will give us a definite direction for the first time in the development of a more exact metal wear science," according to Dr. Robert H. Read, Armour Research Foundation's supervisor of physical metallurgy. "And the knowledge realized will aid in the future selection and development of alloys for such products as piston rings, bearings, gears, etc., and will enable industry to save millions of dollars annually."

ARF's scientific team, made up of researchers in metals, mechanics, physics and chemistry are "forcing" metals to wear by using a series of experimental machines developed to measure metal wear and friction. Equipments being utilized include x-ray diffraction, electron microscope, micro-probe analyzer, radioactive isotopes and controlled environment laboratories.

By measuring weight loss, changes in dimension, and surface damage, the extent of wear is determined. With the data obtained from the alloys being tested, correlative conclusions are made for the wear and friction properties of other alloys.

Dr. Read and Dr. Peter Evans, ARF research metallurgist, are heading the scientific study.

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C. A. Sengstock

CAlumet 5-9600, Ext. 745

R RELEASE: Immediately

Edward L. Hilts, 39, was recently appointed supervisor of publications at Armour Research Foundation of Illinois Institute of Technology, it was announced by A. McKinlay, Jr., ARF public relations manager.

Hilts came to the Foundation from Beckman Instruments, Fullerton, Calif., where he was technical editor. Prior to that he was manager of publicity for the Outboard Boating Club of America here in Chicago. From 1956 to 1957, Hilts was account executive for the Fulton Morrissey Co. handling the United States Gypsum account.

While serving as a fighter pilot in the Navy during World War II, Hilts began his writing career as author of several mystery and detective stories. Upon being discharged in 1946, he continued writing in both the fiction and non-fiction fields on a free lance basis and has over 200 short stories and three books to his credit. In 1951, he joined Popular Mechanics Magazine as an assistant editor.

At ARF, Hilts will be responsible for supervision of all internal and external publications including Industrial Research Newsletter, a monthly publication, and Frontier, a quarterly magazine of science and research.

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A native of Chicago, Hilts graduated from Loyola Academy and attended Loyola University. He is the grand-nephew of Finley Peter Dunne, creator of the renowned Mr. Dooley series of books, acclaimed for fifteen years at the turn of the century as the nation's top humor books.

Hilts, his wife, Katherine, and their seven children live at 911 So. Vine, Hinsdale, Ill.

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Charles A. Sengstock

CAlumet 5-9600, Ext. 745

RELEASE: Immediately

The appointment of Myron T. Noar, 30, as Supervisor of Press Relations for the Armour Research Foundation of Illinois Institute of Technology was announced today by A. McKinlay, Jr., ARF public relations manager.

Noar comes to the Foundation from the Radio Corporation of America where he served as public relations coordinator for defense electronic products in Moorestown, N. J. Previously, he was administrator of publications for RCA's television division in Indianapolis, Ind., and was formerly on the advertising staff of the Indianapolis Times.

At ARF, Noar will be responsible for the release of information regarding research developments and scientific achievements at the Foundation to news media and the scientific press.

A native of Worcester, Massachusetts, Noar graduated from Boston University, and attended Indiana University.

Noar plans to reside in Chicago when his wife, Phyllis, and three children arrive here from New Jersey.

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R RELEASE: Immediate

CHICAGO, ILL., June 10, 1961 -- A $65,000 contract for establishing a scientific research institute in Afghanistan was awarded to the Armour Research Foundation of Illinois Institute of Technology, it was announced.

The contract, awarded to ARF by The Asia Foundation, a California organization with offices in 14 Asian countries, calls for setting up an analytical chemistry laboratory, completely equipping the laboratory with apparatus, chemicals, books and other accessories, and training of scientists and technicians.

Site of the scientific research institute will be the University of Kabul in the Afghan capital. The analytical chemistry laboratory will serve as a nucleus for additional research services and facilities and will also meet Afghanistan's most important current needs.

John S. Shanly, ARF international research adviser, will spend 18 months at the University of Kabul as consultant and supervisor on the project. The work on establishment of the research institute is based on a feasibility study for such a facility made by present ARF assistant director Niels C. Beck for the Asia Foundation.

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RELEASE: Immediate

CHICAGO, ILL., June 12, 1961 -- Accurate determination of weather variables in areas up to 25 miles away is now possible without venturing into the area under study, according to scientists at Armour Research Foundation.

A study conducted by ARF for the U. S. Army Signal Corps indicates that it is possible to determine the following weather variables at a remote point: Temperature, relative humidity, air pressure and wind direction and speed. The proposed system also is refined in the sense that it could determine these weather factors at heights up to 5,000 feet and, using an accompanying computer, provide a meteorological profile.

This information would be valuable to a field army or research team and could be used for many purposes: combat intelligence, missile work, battlefield surveillance, and determining atmospheric conditions in defense against chemical or biological attack.

Here is how the system would work: Two methods could be used in the ARF surveillance system for measuring temperature by passive means: a) a microwave radiometer which measures the emission from O_2 in the 60 KMC region of the microwave spectrum and b) a radiometer to measure the emission from CO_2 in the 4.3 micron region of the infrared spectrum. The one system is primarily a radar instrument, the other an optical instrument.

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The radiometer readings would be converted to temperature-height profiles. The regions each of the two systems would be able to probe complement one another, so both techniques would be used in the system.

The relative humidity technique which would be incorporated in the system is similar to the method used in measuring temperature. Main differences are in frequencies of the radiometer.

Wind information would be obtained by using a scheme of detecting acoustic disturbances along a vertical line by an array of ground stations. In this method, rocket grenades would be used to produce the acoustic disturbances. Appropriately placed stations detect the time and angle of arrival of each sound burst.

This data, coupled with information of the position of the explosions, atmospheric temperature, relative humidity and density in turn allow the wind structure to be deduced.

Using a computer and knowledge of ground pressure, temperature and relative humidity data from the radiometers, the pressure-height profile is easily constructed.

The system requires a small digital computer to reduce the large quantity of measurement data to meaningful information. The system would help fill the present gap in the measurement of micrometeorological variables.

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For further information on this release, contact:

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CAlumet 5-9600, Ext. 746

CHICAGO, ILL., June 12, 1961 -- Letter awards in baseball, track, tennis, golf and bowling at Illinois Institute of Technology have been announced by Bernard "Sonny" Weissman, IIT athletic director.

Those receiving letters include:

Baseball -- Blase J. Bartolomeo 9855 S. Avenue H, Chicago; Richard P. Byrne, 5649 N. Rockwell, Chicago; Don A. Couwenhoven, 260 E. 150th st., Harvey, Ill.; James A. Fandel, 317 Dewey, Northlake, Ill.; George C. Frank, 10212 S. Green, Chicago; Joel C. Goldberg, 5301 N. Spaulding, Chicago; Grant S. Hintz, 2031 Plum st., Aurora, Ill.; Robert W. Keller, 5020 Greenwood, Skokie, Ill.; John R. King, 1928 Yoakam rd., Lima, Ohio; Jay E. Klompmaker, 16080 S. Park ave., South Holland, Ill.; Donald L. Krimmel, 1607 S. Austin blvd., Cicero, Ill.; George J. Kriz, 3242 S. Hamlin, Chicago; Clarence Krusinski, 3625 N. Sawyer, Evanston, Ill.; Claude G. Maloney, 3910 Custer st., Manitowoc, Wis.; David E. McGuire, 230 Whitson st., Manhattan, Ill.; Joseph A. Pash, 8417 S. Homan, Chicago; James F. Przewoznik, 1076 N. Paulina, Chicago.

Track -- Dennis I. Couzin, 4220 Suffield, Skokie, Ill.; James K. DeBaer, 2434 E. Riverside dr., Ionia, Mich.; Donald G. Hervey, Box 1612, Shreveport, La.; Leonard C. Johnson, 813 E. 153rd st., Harvey, Ill.; Ted E. Lewis, 118 S. Second st., Hanna City, Ill.; Allen P. Marske, 523 Third ave., North Clinton, Iowa; John J. Novosel, 10944 Avenue L, Chicago; Anthony J. Stavros, 19 E. Stonegate dr., Prospect Hts., Ill.; and Edward W. Yates, R. D. No. 1, Salem, Ohio.

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Tennis -- James W. Carlin, 2513 29 1/2 st., Rock Island, Ill.; William C. Chocallo, 29 E. Mowry st., Chester, Pa.; Wayne E. Davis, 3120 John Patterson, Des Moines, Iowa; Johnny O. Eubank, 3905 Kimpalong dr., Nashville, Tenn.; Michael J. Friduss, 8109 S. Jeffery, Chicago; Robert F. Golton, 5821 Kingsdale ave., Chicago; Robert F. Pustaver, 7522 W. Harrison, Forest Park, Ill.; and Victor A. Morganstern, 545 Queen st., Westbury, N.Y.

Golf -- Michael G. Kolifrath, 405 Robert ave., Rockford, Ill.; Lionel L. Lucchesi, 7280 S. Bristol, St. Louis, Mo.; Donald K. Neal, 2212 Park ave., Riverside, Ill.; Raynor D. Nelson, 628 Villa st., Elgin, Ill.; John G. Olin, 5411 N. St. Louis ave., Chicago; and Earl G. Westerling, 5038 1/2 Diversey, Chicago.

Bowling -- Albert F. Groth, 1922 George st., Chicago; and John A. Becque, 2428 N. California, Chicago.

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R RELEASE: **IMMEDIATELY**

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For further information on this release, contact:

Myron T. Noar
CAlumet 5-9600, Ext. 744

SPECIAL TO THE IRE RADIO FREQUENCY INTERFERENCE SYMPOSIUM

WASHINGTON, D. C., June 13 -- The efficiency of American radar systems will be greatly increased with the establishment of the electromagnetic compatibility analysis center being developed at the Naval Engineering Experiment Station at Annapolis, Md., according to scientists of the Armour Research Foundation of Illinois Institute of Technology attending the radio frequency interference symposium here.

Part of a tri-service Department of Defense program, the facility will be used to correct existing radio interference problems affecting missile launchings, satellite tracking stations, aircraft command and control centers, and early warning systems, it was reported by Stanley I. Cohn, director of technical operations for the center.

Cohn is assistant director of electronics research for ARF, which carries the technical responsibilities for the center under a contract awarded recently by the Air Force Electronic Systems Division at Hanscom Field, Mass.

"Radio interference can affect radar reliability by causing extra images on radar screens, and it takes highly experienced operators to determine the correct target," Cohn explained.

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Under the program, data supplied by all three military services regarding the characteristics of electronic equipments being used is programmed into a digital computer system, according to Cohn.

"Considering such phenomena as antenna patterns and spurious emissions and responses to unwanted frequencies, sophisticated computer techniques will be used to allocate frequencies within the rf spectrum, indicate needs for equipment changes, and designate locations for transmission and receiving equipments.

"Information received from the compatibility center will also aid in the future design of electronic hardware for new military installations. Thus, they would be manufactured within the limits of compatibility in accordance with their use and location," Cohn went on to say.

A temporary center has been set up at ARF headquarters in Chicago where electronics and mathematical specialists are developing the intricate programming procedures, and analyzing known information in the radio frequency interference area.

At a date yet to be designated, the project will be moved to the permanent headquarters at Annapolis. The facility will be operated by ARF with about 90 electronic, mathematics, and data processing specialists.

Although developed primarily for compatibility in radar systems, the center will eventually be used to solve radio interference problems in communications, Cohn concluded.

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RELEASE:

WEDNESDAY, JUNE 14, 1961

Armour Research Foundation
10 West 35th Street
Chicago 16, Illinois

Myron T. Noar
CA 5-9600, Ext. 744

CHICAGO, ILL. -- As part of the U. S. effort to put a man on the moon by the late 1960's, studies of lunar surface and soil conditions are being made by scientists of the Armour Research Foundation of Illinois Institute of Technology for selecting suitable sites for manned rocket landings.

The safest landing areas, according to Foundation researchers, would be in the flat wide-open seas (called maria) which offer "soft landing" due to the sizeable layers of lunar dust occurring there. Explorations of the highlands and craters would be made from the maria as shown in this artist's drawing.

Landings on the rocks of the highlands or on crater rims, which are frequent on the moon's surface, could be disasterous, scientists explained. There is the possibility of a rocket ship being completely swallowed in the lunar dust which could run miles deep to the floors of the huge craters.

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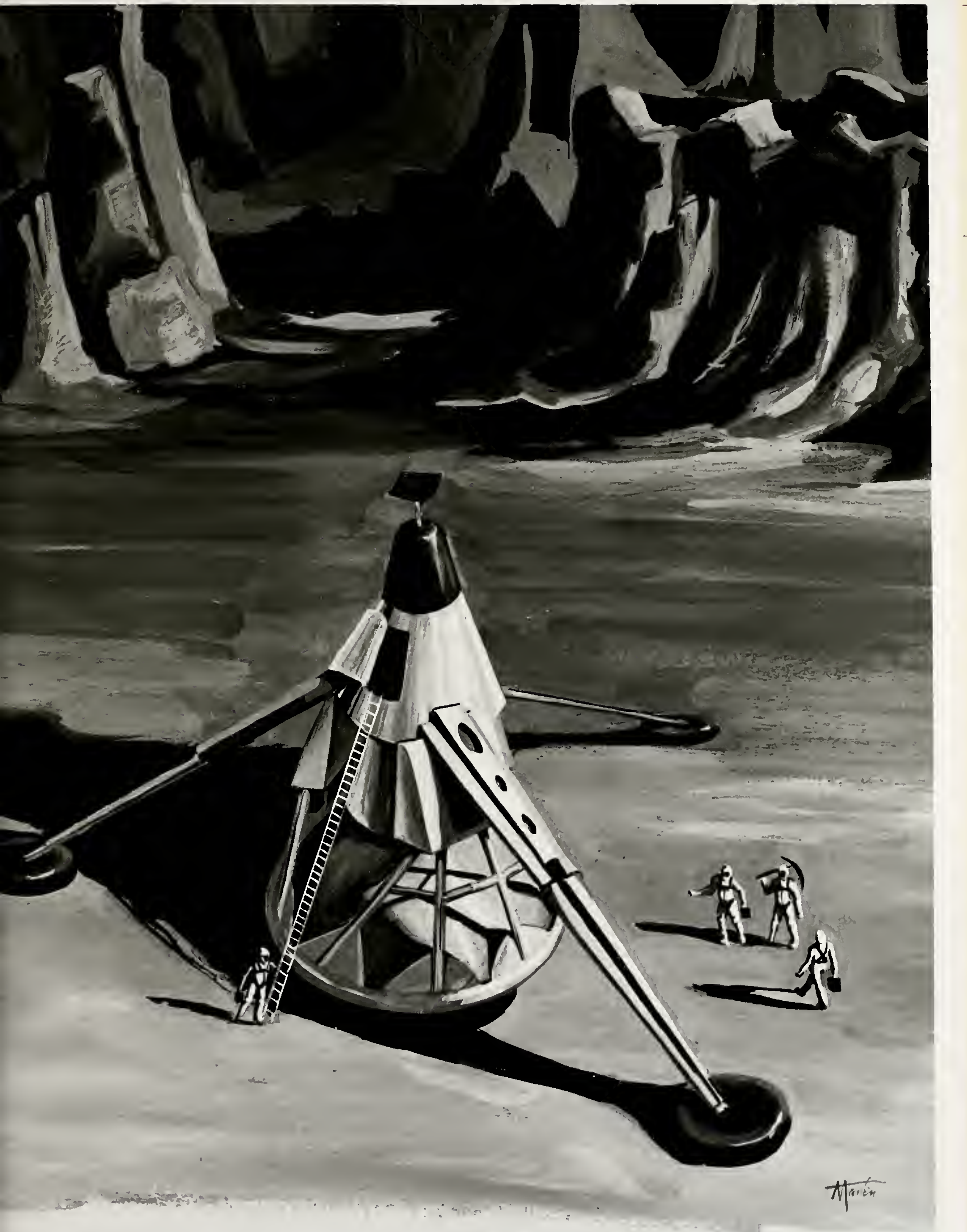

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R RELEASE:

Immediate

INSTITUTE OF GAS TECHNOLOGY DIRECTOR
NAMED IIT ACADEMIC VICE PRESIDENT

CHICAGO, ILL., June 16, 1961 -- Dr. Martin A. Elliott has been appointed academic vice president of Illinois Institute of Technology, effective September 1, 1961, Dr. John T. Rettaliata, president of Illinois Tech, announced today.

He succeeds Dr. Joseph C. Boyce who will become vice president in charge of graduate studies and research.

"By education, teaching and research experience, Dr. Elliott is excellently qualified to carry forward the objectives of the Institute in his new assignment," said Rettaliata in making the announcement.

Elliott was previously on the faculty of Illinois Tech as research professor of mechanical engineering from September, 1952 to February, 1956 when he was named to his current position as the director of the Institute of Gas Technology, an IIT affiliate. He was born in Baltimore, Maryland, in 1909, and is an alumnus of Johns Hopkins university where he received bachelor (1930) and doctor of philosophy (1933) degrees in gas engineering.

From 1934 to 1938, he was assistant to the superintendent of gas manufacture of Consolidated Gas, Electric Light & Power Company of Baltimore (now Baltimore Gas & Electric Company).

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From 1938 until 1952, Elliott was associated with the U. S. Bureau of Mines in Pittsburgh, where he served, successively, as gas engineer, principal chemical engineer, assistant chief of the explosives division, and chief of synthetic liquid fuels research.

During 1950 he studied the development of synthetic liquid fuel processes and the production of fuel gases in major European countries.

For his work with the Bureau of Mines, the secretary of interior in 1952 presented Elliott with the Interior department's highest award, its Distinguished Service Medal.

Recently, Elliott was appointed to the boards of directors of Century 21 Fair, Seattle, Washington, and Autoresearch Laboratories, Inc., Chicago. He also serves on the committee of the chemistry of coal of the National Academy of Science, National Research council. He has been a member and chairman of various committees of the American Gas association.

Elliott is married, has two children, and lives at 237 South Spring ave., La Grange.

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R RELEASE: SUNDAY NEWSPAPERS
JUNE 18, 1961

WASHINGTON, D.C., June 18 -- Dr. Halden A. Leedy, director of Armour Research Foundation of Illinois Institute of Technology, Chicago, has been elected as a Fellow of the American Association for the Advancement of Science it was reported today.

The announcement was made by Dr. Dael Wolfle, executive officer of the AAAS who lauded Leedy for his "inspirational efforts in behalf of science and its position in our civilization."

Fellows of the national science organization are elected on the basis of outstanding individual contributions to the advancement of the various fields of science.

Director of ARF for the past thirteen years, Leedy is the author of several books and papers on air pollution, automation, and acoustics. He is a member of numerous professional scientific and civic organizations.

A native of Fremont, Ohio, Leedy earned his Doctor of Philosophy degree at the University of Illinois.

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The second lowest May recorded thus far in average total dustfall for the Chicago area was reported by the Armour Research Foundation of Illinois Institute of Technology.

Although the average reading for last month was 40.8 tons per square mile, only May of last year, with 35.7 tons has been lower since measurements of Chicago's dustfall averages began in 1948, according to Samuel Radner, ARF research engineer. The May reading, however, was 4 tons less than the 44.8 tons recorded in April.

The demand for heat last month was 20 per cent greater than May of last year, with 265 degree days recorded this May as against only 221 degree days recorded during the corresponding period last year, Radner pointed out. And this May was a great deal drier than last year with only 54 per cent of the total precipitation recorded for last May.

The highest readings for last month occurred at 7531 Stony Island Ave., 81.1 tons; and in Chicago's Loop with a reading of 69.7 tons per square mile.

Lowest dustfall readings recorded by ARF were at 1620 W. 99th St., where only 19.1 tons were indicated; and at 7350 Pratt Ave. with 23.1 tons.

The lowest reading obtained in May was at the Park

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Forest recording station with only 15 tons. On the other hand the 28.1 ton reading obtained at Elmhurst was higher than the two west city readings.

Here are the readings for April and May of this year and May of 1960 as recorded at the 24 collecting stations in the city.

CHICAGO TOTAL DUSTFALL
Trends by Station
May, 1961

Ward No.	Station Address	Readings in tons per square mile May 1961	April 1961	May 1960
1	State and Adams	70.0	55.3	46.4
1	33 N. LaSalle	69.5	72.3	49.3
	Loop Average	69.7	63.8	47.8
1	2135 S. Michigan	48.8	61.2	42.9
4	825 E. 44th	33.8	51.1	31.7
5	1362 E. 59th	25.8	36.1	32.2
7	7531 Stony Island	81.1	61.0	50.9
9	67 W. 113th Pl.	36.6	45.8	27.7
10	8858 Marquette	66.7	70.7	49.7
13	3105 W. 63rd	55.4	41.9	29.5
13	6140 S. Melvina	40.1	38.3	36.5
17	7559 Eggleston	31.7	31.3	23.7
19	1620 W. 99th	19.1	27.8	17.6
22	3608 Ogden	29.2	25.4	10.7
26	1500 W. Monroe	44.8	50.3	38.4
30	5055 Fulton	38.1	45.5	40.4
32	2940 W. Cortland	43.3	118.9	30.4
36	5602 Belden	26.7	36.3	31.7
40	3944 N. Sawyer	26.9	37.1	26.4
41	7350 Pratt	23.1	34.2	10.0
42	54 W. Hubbard	55.1	59.3	43.6
44	551 Grant Pl.	40.0	40.8	34.5
46	3532 Sheffield	36.8	48.8	42.6
49	1622 Pratt Blvd.	23.9	39.1	-
12	2240 W. 37th	41.7	40.7	87.3
	Averages (including Loop)	40.8	44.8	35.7

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R RELEASE: IMMEDIATE

CHICAGO, ILL., June 21 -- A contract to establish and develop applied industrial research in the Philippines has been awarded to the Armour Research Foundation of Illinois Institute of Technology, it was announced today.

Sponsored by the International Cooperation Administration in Washington, D.C., the $100,000 contract calls for ARF to furnish technical advice, guidance and training to the Philippine National Institute of Science and Technology for the purpose of planning and improving industrial research. Particular emphasis is being put upon research in connection with agricultural raw materials and waste products, according to Paul B. W. Gollong, ARF international research director.

Team leader of the one-year project will be Charles Schuh, an industrial research chemist, who will leave for the Philippines in August. Two other advisors--an organic chemist and a microbiologist--will follow at a later date. They will aid Schuh in evaluation, planning and improving industrial research and aid in developing a program for effective training and utilization of scientific and technological manpower in the Philippines.

This is the eighth foreign research institute ARF has either established or strengthened in the past ten years. In this

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work, the international research division has advised the various nations on location of research facilities, design of laboratories, choice of staff, the selection of research programs and has taken part in the training and administration of the research institute so that it could eventually function as an independent organization at the conclusion of the program.

Programs of this type have been conducted in Burma, Mexico, Colombia, Argentina, Venezuela, and India. A similar program is now under way in Afghanistan.

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R RELEASE: IMMEDIATE

Two supervisors of electronics research were named at Armour Research Foundation of Illinois Institute of Technology, it was announced by Virgil H. Disney, ARF director of electronics research. The appointments were effective June 6.

Joe Faraone was named supervisor of communications and radar and Jack Bridges, supervisor of electronic compatibility.

Faraone joined the Foundation in June, 1956, and has participated in radar and communications programs for the past ten years. He has both a B.S. and M.S. in electrical engineering from Illinois Institute of Technology.

Bridges recently joined ARF with over 15 years of experience in research and development for Warwick, Magnavox, Zenith, and Andrew. He has both a B.S. and M.S. in electrical engineering from the University of Colorado. He has been granted 18 patents and has published many technical papers. The Institute of Radio Engineers awarded him the Browder J. Thompson Medal, 1956, for the paper entitled, "Detection of Television Signal in Thermal Noise", published in the "Proceedings of the IRE", September, 1954.

Faraone resides at 307 Elm St., Glen Ellyn. Bridges lives at 1937 Fenton Lane, Park Ridge.

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OR RELEASE:
SUNDAY, JUNE 25, 1961

CHICAGO, ILL., June 25 -- The appointment of Dr. James J. Brophy, 33, as Director of Technical Development for the Armour Research Foundation of Illinois Institute of Technology was announced today by Dr. Haldon A. Leedy, ARF Director.

Dr. Brophy, a member of the Foundation staff since 1951, will be responsible for coordinating and directing a continuing program to develop ARF's technical capabilities to keep pace with the acceleration of today's technological progress. He had been serving as assistant director of physics research until the recent appointment.

Brophy succeeds Dr. Richard Humphreys who recently became president of Cooper Union College in New York.

A graduate of the Illinois Institute of Technology where he received his doctorate degree in physics in 1951, Brophy has been a significant contributor in the area of solid state physics, and has authored some 40 technical papers published in this country and abroad.

At ARF, he has been concerned with research programs involving magnetic devices, electronic cooling, semi-conducting diodes and capacitors, transistors, infrared detectors, and magnetic recording. He holds a number of patents on semiconductor and magnetic devices.

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Brophy is a member of Sigma Xi and a Fellow in the American Physical Society.

A native of Chicago, Brophy, his wife, Muriel, and their three children reside in Western Springs, Illinois.

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R RELEASE: IMMEDIATE

CHICAGO, ILL., June 22 -- An air pollution expert and a chemical engineer from Armour Research Foundation of Illinois Institute of Technology are headed for Lima, Peru, on a special mission to try and rid the air in the Peruvian capital of an overpowering fish odor.

The air pollution problem, which has been the source of much complaint on the part of Lima residents, according to Peruvian officials, is caused by the many fish meal producing plants in the area belching smoke and waste products into the air. A special commission, set up by the government of Peru to study and propose a solution to the problem, called the Chicago organization in for advice.

The Armour Research Foundation experts, Samuel Radner, who conducts the monthly Chicago dustfall survey, and James Cooperman, left today by plane to make a technical survey. Modification of the processes and installation of collecting or air scrubbing equipment are to be considered as possible solutions to the problem.

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OR RELEASE: 6 P.M. EST
Wednesday, June 28, 1961

POOR MAN'S GUIDANCE SYSTEM

CHICAGO, ILL., June 28 -- An inexpensive and more accurate inertial guidance system for intermediate range missiles is being developed by the Armour Research Foundation of Illinois Institute of Technology, it was reported today.

In making the disclosure, William E. Reynolds, supervisor of the Foundation's mechanics research division claimed that the relatively simple guidance system cannot be affected by electronic countermeasures (ECM), such as jamming. And by virtue of its simplicity will be less expensive and easier to manufacture than the "black box" (electronically) controlled missile systems.

Although Reynolds would not give details of how the new guidance system would work, he did say that launching tests to date indicate that the low-cost development will make it possible to achieve greater accuracy than with the conventional "free rocket" method now being used.

Missiles today are guided to their targets by two known methods; by ballistics principles, whereby the missile is in free fall during the final stages of its trajectory; or by radio or electronic control, whereby the missile reacts to radio frequency impulses from launch to impact.

Of the two, the radio controlled guidance system is most

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accurate, but it can be jammed by a potential enemy which could render the guidance system useless, or deter the projectile from its intended target.

In addition to Reynolds, the team of Armour Research Foundation scientists developing the low cost missile guidance system includes: Frederick King, senior scientist; and Seymour Bazell, design engineer.

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OR RELEASE:
IMMEDIATE

CHICAGO, ILL., -- Session chairmen for the 1961 Computer Applications Symposium to be held Oct. 25 and 26 in Chicago have been named, according to symposium program chairman, Benjamin Mittman.

Chairman for the business and management applications session, Oct. 25, is Charles A. Phillips, director, Data Systems Review Division, Office of the Assistant Secretary of Defense, Washington, D.C.

Dr. Robert P. Rich, director, Computation Facility, Applied Physics Laboratory, The Johns Hopkins University, Silver Springs, Md., is chairman for the scientific and engineering applications session, Oct. 26.

The annual symposium is sponsored by Armour Research Foundation of Illinois Institute of Technology and will be held at the Morrison Hotel, Chicago. Invited papers will represent business and management, and engineering and scientific applications. The conference will stress user experience in computer application and programming techniques.

Inquiries concerning the conference should be addressed to Benjamin Mittman, symposium program chairman, Armour Research Foundation, 10 W. 35th St., Chicago 16, Ill.

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